REVISED 06/4/2021

CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT

06/04/2021

VIOLET CROWN TRAIL - NORTH PHASE 2A

C.I.P. ID.: 10796.011

FEDERAL PROJECT NUMBER STP 2021 (803) TP
TXDOT CSJ-0914-04-311

SHARE USE PATH DESIGN SPEED = 12 MPH

NOTES:

1. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.

2. CONTRACTOR SHALL CALL "ONE CALL" AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.

3. THIS PROJECT IS LOCATED WITHIN THE WILLIAMSON CREEK WATERSHED (CLASSIFIED AS SUBURBAN) AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.

4. A PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)

5. A PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S) NO 48453C0580H, DATED 09/26/2008.

6. THIS PROJECT IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).

7. THERE ARE CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT. A FIELD INVESTIGATION HAS BEEN PERFORMED AS A PART OF THIS PROJECT.

8. THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.

9. ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.

10. PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.

11. APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL RECORDED EASEMENT DOCUMENT NUMBERS HAVE BEEN OBTAINED AND SHOWN ON PLANS.

12. CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.

NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL.
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT, THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

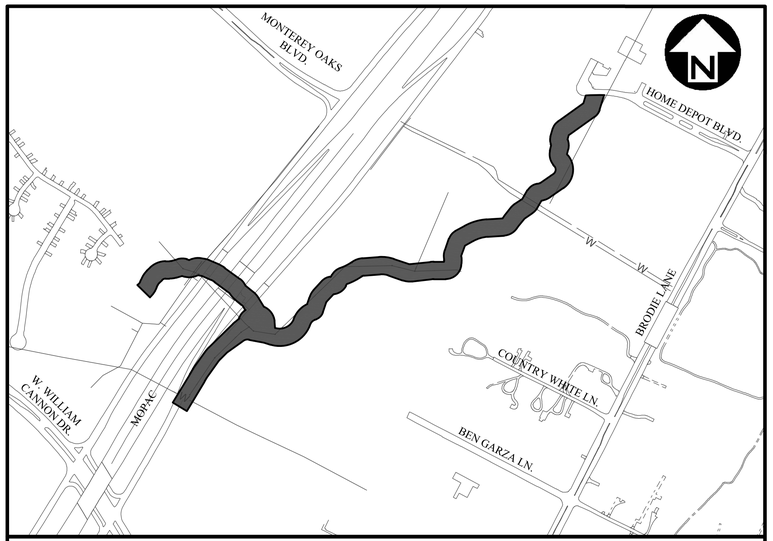
AN ADMINISTRATIVE VARIANCE HAS BEEN GRANTED FROM LDC 25-8-281(C)(2)(B) TO ALLOW FOR THE CONSTRUCTION OF AN IMPERVIOUS TRAIL WITHIN THE CRITICAL ENVIRONMENTAL FEATURE BUFFER. THE TRAIL OR ANY ASSOCIATED CONSTRUCTION ACTIVITIES MUST NOT BE LOCATED WITHIN 50 FT FROM THE EDGE OF THE CRITICAL ENVIRONMENTAL FEATURE.

NO WORK OR CLOSURES ALLOWED ON MOPAC MAIN LANES.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD

FOR USE BY GENERAL PERMIT OFFICE ONLY

NO	DESCRIPTION	BY	CORRECT (C) ADD (D) VOID (V) SHEET NO.'s	TOTAL # SHEETS IN CORRECTION PLAN SET	GENERAL PERMIT PROGRAM APPROVAL	APPROVAL DATE



COA GRID: D18, E18

MAPSCO: MAP 642D, 643A

LOCATION MAP
N.T.S.

PROJECT LOCATION

NOTE:
1. PARKING ON TxDOT LANES AND SHOULDERS IS NOT ALLOWED.
2. LANE CLOSURES ON TxDOT TRAVEL LANES AND SHOULDERS ONLY ALLOWED FROM 9 AM TO 3 PM OF 1 LANE CLOSED AT A TIME.
3. NO STORAGE OF EQUIPMENT OR MATERIAL IN TxDOT RIGHT OF WAY.

UCC-140529-05-02
AULCC NUMBER

SPECIFICATIONS ADOPTED BY THE CITY OF AUSTIN AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

PROJECT INFORMATION:

STREET ADDRESS:
4003 BEN GARZA LANE
1200 HOME DEPOT BLVD
AUSTIN, TX78745

CLIENT/SPONSOR:
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
COMMUNITY SERVICE DIVISION
505 BARTON SPRINGS RD. STE. 800
AUSTIN, TEXAS 78704

CONTACT:
JANAE SPENCE, P.E.
PHONE: (512) 974-3159
EMAIL: janae.spence@austintexas.gov

PROJECT MANAGEMENT:
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT DIVISION
6800 BURLESON ROAD, BLDG. 312, SUITE 200 AUSTIN, TEXAS 78744

CONTACT:
JAVI GONZALEZ, P.E.
PHONE: (512) 974-5635
EMAIL: javi.gonzalez@austintexas.gov

SUBMITTAL PREPARED BY:

STATE OF TEXAS
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER
06/04/2021

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

ESD
ENGINEERING SERVICES DIVISION

CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

CONTACT:
RUBEN LOPEZ, P.E.
PHONE: (512) 974-7159
EMAIL: ruben.lopez@austintexas.gov

APPROVED BY GENERAL PERMIT HOLDER:

FOR GENERAL PERMIT HOLDER — DATE

GP-2020-0000.PWD
ANNUAL GENERAL PERMIT NUMBER

REVIEWED BY:

[NUMBER]
CITY OF AUSTIN PARKS AND RECREATION MOU NUMBER

CITY OF SUNSET VALLEY

RECOMMENDED FOR LETTING

DocuSigned by: Gregory M. Hollandi, P.E. 7/21/2021
DISTRICT DESIGN ENGINEER, TEXAS DEPARTMENT OF TRANSPORTATION — DATE

CORRECT FOR LETTING

DocuSigned by: William L Seman Jr, P.E. 7/21/2021
AREA ENGINEER, TEXAS DEPARTMENT OF TRANSPORTATION — DATE

APPROVE FOR LETTING

DocuSigned by: Heather Kelly-Ngo 7/21/2021
DIRECTOR OF TRANSPORTATION PLANNING & DEVELOPMENT, TEXAS DEPARTMENT OF TRANSPORTATION — DATE

APPROVAL FOR SITE DEVELOPMENT PERMIT:

10/20/2020
GENERAL PERMIT PROGRAM COORDINATOR DEVELOPMENT SERVICES DEPARTMENT — DATE

GP-2020-0085.PW
GENERAL PERMIT NUMBER — DATE

MARCH 24, 2020
SUBMITTAL DATE

GENERAL PERMIT PROGRAM

#	ID	DESCRIPTION
1	G-001	GENERAL COVER
2	G-002	INDEX SHEET
3	G-003	LEGEND SHEET
4	G-004	GENERAL CONSTRUCTION NOTES
5	CU001	GENERAL INFORMATION & CONSTRUCTION NOTES FOR CAPITAL IMPROVEMENTS PROJECTS
6	G-101	OVERALL MAP
7	V-101	EXISTING CONDITIONS PLAN - SHEET 1 OF 7
8	V-102	EXISTING CONDITIONS PLAN - SHEET 2 OF 7
9	V-103	EXISTING CONDITIONS PLAN - SHEET 3 OF 7
10	V-104	EXISTING CONDITIONS PLAN - SHEET 4 OF 7
11	V-105	EXISTING CONDITIONS PLAN - SHEET 5 OF 7
12	V-106	EXISTING CONDITIONS PLAN - SHEET 6 OF 7
13	V-107	EXISTING CONDITIONS PLAN - SHEET 7 OF 7
14	CE-001	EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
15	CE-002	TREE PROTECTION NOTES AND DETAILS
16	CE-003	EXISTING PEDESTRIAN PATH REVEGETATION AREA
17	CE-101	EROSION & SEDIMENTATION CONTROL - SHEET 1 OF 7
18	CE-102	EROSION & SEDIMENTATION CONTROL - SHEET 2 OF 7
19	CE-103	EROSION & SEDIMENTATION CONTROL - SHEET 3 OF 7
20	CE-104	EROSION & SEDIMENTATION CONTROL - SHEET 4 OF 7
21	CE-105	EROSION & SEDIMENTATION CONTROL - SHEET 5 OF 7
22	CE-106	EROSION & SEDIMENTATION CONTROL - SHEET 6 OF 7
23	CE-107	EROSION & SEDIMENTATION CONTROL - SHEET 7 OF 7
24	CE-601	EROSION & SEDIMENTATION CONTROL - TREE LIST SHEET 1 OF 2
25	CE-602	EROSION & SEDIMENTATION CONTROL - TREE LIST SHEET 2 OF 2
26	CP-201	MAIN TRAIL PLAN & PROFILE BEGIN - STA. 11+50
27	CP-202	MAIN TRAIL PLAN & PROFILE STA. 11+50 - STA. 15+50
28	CP-203	MAIN TRAIL PLAN & PROFILE STA. 15+50 - STA. 19+50
29	CP-204	MAIN TRAIL PLAN & PROFILE STA. 19+50 - STA. 23+50
30	CP-205	MAIN TRAIL PLAN & PROFILE STA. 23+50 - STA. 27+50
31	CP-206	MAIN TRAIL PLAN & PROFILE STA. 27+50 - STA. 31+50
32	CP-207	MAIN TRAIL PLAN & PROFILE STA. 31+50 - STA. 35+50
33	CP-208	MAIN TRAIL PLAN & PROFILE STA. 35+50 - STA. 39+50
34	CP-209	MAIN TRAIL PLAN & PROFILE STA. 39+50 - STA. 43+50
35	CP-210	MAIN TRAIL PLAN & PROFILE STA. 43+50 - STA. 47+50
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37	CP-212	SPUR TRAIL LATERAL PLAN & PROFILE BEGIN - STA. 13+00
38	CP-213	SPUR TRAIL LATERAL PLAN & PROFILE STA. 13+00 - STA. 17+00
39	CP-214	SPUR TRAIL LATERAL PLAN & PROFILE STA. 17+00 - STA. 21+00
40	CP-215	SPUR TRAIL LATERAL PLAN & PROFILE STA. 21+00 - END
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42	CP-002	DETAIL SHEETS (SHEET 2 OF 3)
43	CP-003	DETAIL SHEETS (SHEET 3 OF 3)
44	CP-004	PEDESTRAIN HANDRAIL DETAILS (SHEET 1 OF 3)
45	CP-005	PEDESTRAIN HANDRAIL DETAILS (SHEET 2 OF 3)
46	CP-006	PEDESTRAIN HANDRAIL DETAILS (SHEET 3 OF 3)
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48	CP-008	WILLAIMSON CREEK CROSSING SECTION B AND C
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63	L-101	TREE MITIGATION - SHEET 1 OF 9
64	L-102	TREE MITIGATION - SHEET 2 OF 9
65	L-103	TREE MITIGATION - SHEET 3 OF 9
66	L-104	TREE MITIGATION - SHEET 4 OF 9
67	L-105	TREE MITIGATION - SHEET 5 OF 9
68	L-106	TREE MITIGATION - SHEET 6 OF 9
69	L-107	TREE MITIGATION - SHEET 7 OF 9
70	L-108	TREE MITIGATION - SHEET 8 OF 9
71	L-109	TREE MITIGATION - SHEET 9 OF 9
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74	L-002	LANDSCAPE PLANT LIST
75	L-501	LANDCAPE DETAILS
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77	S-102	EHZ ANALYSIS POINT 1
78	S-103	EHZ ANALYSIS POINT 2
79	S-104	EHZ ANALYSIS POINT 3
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81	P-502	PRECAST CONCRETE BOARDWALK - SHEET 2 OF 6
82	P-503	PRECAST CONCRETE BOARDWALK - SHEET 3 OF 6
83	P-504	PRECAST CONCRETE BOARDWALK - SHEET 4 OF 6
84	P-505	PRECAST CONCRETE BOARDWALK - SHEET 5 OF 6
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88	TXD3	PREP ROW PRUNING DETAIL
89	TXD4	VOID MITIGATION DETAILS

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR
P/C # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

INDEX SHEET

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

G-002 | 2 OF 89

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-G-GN-INDX.DWG, CIAD_PDF_22X34_COA_PLOT_STYLES.STB
7/29/2021 2:06 PM

EXISTING FEATURES

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- 25Y — FLOOD HAZARD ZONE 25 YEAR
- 100Y — FLOOD HAZARD ZONE 100 YEAR
- CWQZ — CRITICAL WATER QUALITY ZONE
- WQTZ — TRANSITION WATER QUALITY ZONE
- DR — DRAINAGE EDGE
- DRAINAGE CENTERLINE
- DITCH EDGE
- TC — TIME OF CONCENTRATION
- 600 — MAJOR CONTOURS
- 599 — MINOR CONTOURS
- PAVED ROAD EDGE
- PAVED PARKING / DRIVEWAY EDGE
- GRAVEL EDGE
- CURB LINE
- BUILDING LINE
- GUARDRAIL
- HANDRAIL
- CHAINLINK FENCE
- BARBWIRE FENCE
- WOOD FENCE
- STEEL FENCE
- FENCE LINE
- STONE / ROCK WALL
- BRICK WALL
- TREE LINE
- C OH — COMMUNICATION OVERHEAD
- C UG — COMMUNCATION UNDERGROUND
- FO OH — FIBER OPTIC OVERHEAD
- FO UG — FIBER OPTIC UNDERGROUND
- TS OH — TRAFFIC SIGNAL OVERHEAD
- TS UG — TRAFFIC SIGNAL UNDERGROUND
- E OH — ELECTRIC OVERHEAD
- E UG — ELECTRIC UNDEGROUND
- CW — CHILLED WATER LINE
- CW — CHILLED WATER ABANDONED
- G — NATURAL GAS LINE
- G — NATURAL GAS ABANDONED
- R — RECLAIMED WATER LINE
- R — RECLAIMED WATER ABANDONED
- IR — IRRIGATION LINE
- IR — IRRIGATION ABANDONED
- STORM DRAIN LINE
- STORM DRAIN ABANDONED
- W — WATER LINE
- W — WATER ABANDONED
- WASTEWATER LINE
- FORCE MAIN LINE
- WASTEWATER ABANDONED
- FORCE MAIN ABANDONED

- BRASS DISK FOUND
- BRASS DISK SET
- BOLT FOUND
- BOLT SET
- BM — BENCHMARK FOUND
- BM — BENCHMARK SET
- CALCULATED POINT
- CONTROL POINT FOUND
- CONTROL POINT SET
- COTTON SPINDLE FOUND
- COTTON SPINDLE SET
- DRILL HOLE FOUND
- DRILL HOLE SET
- HUB & TACK FOUND
- HUB & TACK SET
- IRON PIPE FOUND
- IRON PIPE SET
- IRON ROD FOUND
- IRON ROD SET
- MONUMENT FOUND
- MONUMENT SET
- MAGNAIL FOUND
- MAGNAIL SET
- PROPERTY PIN FOUND
- PROPERTY PIN SET
- TBM — TEMP. BENCHMARK FOUND
- TBM — TEMP. BENCHMARK SET
- CROSS FOUND
- CROSS SET
- BIKE RACK
- BOLLARD
- BENCH
- BUS — BUS STOP
- GARBAGE CAN
- GUARDRAIL POST
- MAILBOX
- PM — PARKING METER
- POST
- RAMP
- TREE GRATE
- SIGN
- U — MANHOLE UNKNOWN
- TP — TEST PIT
- BORE HOLE
- RAILROAD SIGNAL
- SHRUB
- TREE

- STORM DRAIN AREA INLET
- DRAINAGE ARROW
- STORM DRAIN CURB INLET
- SDCO — STORM DRAIN CLEANOUT
- STORM DRAIN GRATE INLET
- STORM DRAIN HEADWALL
- SD — STORM DRAIN MANHOLE
- STORM DRAIN WINGWALL
- WWCO — WASTEWATER CLEANOUT
- WW — WASTEWATER MANHOLE
- WW — WASTEWATER METER
- WASTEWATER CAP
- AF — WATER AIR FLUSH VALVE
- AR — WATER AIR RELEASE VALVE
- WATER CAP
- D — WATER DRAINAGE VALVE
- F — WATER FIRE CONNECTION
- FH — WATER FIRE HYDRANT
- W — WATER MANHOLE
- W — WATER METER
- WATER REDUCER
- WSO — WATER SHUTOFF VALVE
- W — WATER VALVE
- W — WATER WELL

- C — COMMUNICATION PEDESTAL
- C — COMM. JUNCTION BOX
- C — COMMUNICATION MANHOLE
- COMMUNICATION POLE
- C — COMMUNICATION VAULT
- FO — FIBER OPTIC MANHOLE
- FO — FIBER OPTIC JUNCTION BOX
- ELECTRIC ANCHOR
- E — ELECTRIC JUNCTION BOX
- ELECTRIC LIGHT POLE
- E — ELECTRIC MANHOLE
- E — ELECTRIC METER
- ELECTRIC POLE
- E — ELECTRIC VAULT
- ELECTRIC TOWER
- CW — CHILLED WATER MANHOLE
- CW — CHILLED WATER VALVE
- G — NATURAL GAS LIGHT
- G — NATURAL GAS MANHOLE
- G — NATURAL GAS METER
- G — NATURAL GAS VALVE
- NATURAL GAS VENT
- IC — IRRIG. CONTROL VALVE0
- SC — SPRINKLER CONTROL VALVE
- SPRINKLER HEAD
- IRRIGATION HOSE BIB
- R — RECLAIMED WATER MANH.
- R — RECLAIMED WATER METER
- R — RECLAIMED WATER VALVE
- T — TRAFFIC SIGNAL MANHOLE
- TC — TRAF. SIGNAL CONTROL BOX
- TP — TRAFFIC SIGNAL PULL BOX
- TRAF. SIGNAL / PED SIGNAL
- TRAF. SIGNAL LIGHT & SIGN.
- TRAF. SIGNAL SIGN. EXTEND.

PROPOSED FEATURES

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- EASEMENT LINE
- 25Y — FLOOD HAZARD ZONE 25 YEAR
- 100Y — FLOOD HAZARD ZONE 100 YEAR
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- 600 — MAJOR CONTOURS
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- PAVED ROAD EDGE
- PAVED PARKING / DRIVEWAY EDGE
- GRAVEL EDGE
- PAVED ROAD DEMOLITION
- PAVED PARKING DEMOLITION
- CURB LINE
- CURB LINE DEMOLITION
- BUILDING LINE
- GUARDRAIL
- GUARDRAIL DEMOLITION
- HANDRAIL
- HANDRAIL DEMOLITION
- CHAINLINK FENCE
- STEEL FENCE
- FENCE DEMOLITION (GENERIC)
- STONE / ROCK WALL
- BRICK WALL
- TRAFFIC CONE LINE
- TRANSVERSE JOINT
- LONGITUDINAL JOINT
- RB — EROSION ROCK BERM
- EROSION DIVERSION DIKE
- MS — EROSION MULCH SOCK
- SF — EROSION SILT FENCE
- TFD — EROSION TRI-FILTER DIKE
- EROSION TREE PROTECTION
- LOC — LIMITS OF CONSTRUCTION
- C OH — COMMUNICATION OVERHEAD
- C UG — COMMUNCATION UNDERGROUND
- C — COMMUNICATION DEMOLITION
- TS OH — TRAFFIC SIGNAL OVERHEAD
- TS UG — TRAFFIC SIGNAL UNDERGROUND
- TS — TRAFFIC SIGNAL DEMOLITION
- E OH — ELECTRIC OVERHEAD
- E UG — ELECTRIC UNDEGROUND
- E — ELECTRIC DEMOLITION
- CW — CHILLED WATER LINE
- CW — CHILLED WATER TO ABANDON
- CW — CHILLED WATER DEMOLITION
- R — RECLAIMED WATER LINE
- R — RECLAIMED WATER TO ABANDON
- R — RECLAIMED WATER DEMOLITION

- IR — IRRIGATION LINE
- IR — IRRIGATION TO ABANDON
- IR — IRRIGATION DEMOLITION
- STORM DRAIN LINE
- STORM DRAIN TO ABANDON
- STORM DRAIN DEMOLITION
- PD — PERFORATED DRAIN
- WATER LINE
- W — WATER TO ABANDON
- W — WATER DEMOLITION
- WASTEWATER LINE
- FORCE MAIN LINE
- WASTEWATER TO ABANDON
- FORCE MAIN TO ABANDON
- WASTEWATER DEMOLITION
- FORCE MAIN DEMOLITION

- BIKE RACK
- BOLLARD
- BENCH
- BUS — BUS STOP
- GARBAGE CAN
- GUARDRAIL POST
- MAILBOX
- PM — PARKING METER
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- RAMP
- TREE GRATE
- SIGN
- RAILROAD SIGNAL
- SHRUB
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- E — ELECTRIC VAULT
- ELECTRIC TOWER
- CW — CHILLED WATER MANHOLE
- CW — CHILLED WATER VALVE
- G — NATURAL GAS LIGHT
- G — NATURAL GAS MANHOLE
- G — NATURAL GAS METER
- G — NATURAL GAS VALVE
- NATURAL GAS VENT
- IC — IRRIG. CONTROL VALVE0
- SC — SPRINKLER CONTROL VALVE
- SPRINKLER HEAD
- IRRIGATION HOSE BIB
- R — RECLAIMED WATER MANH.
- R — RECLAIMED WATER METER
- R — RECLAIMED WATER VALVE
- T — TRAFFIC SIGNAL MANHOLE
- TC — TRAF. SIGNAL CONTROL BOX
- TP — TRAFFIC SIGNAL PULL BOX
- TRAF. SIGNAL / PED SIGNAL
- TRAF. SIGNAL LIGHT & SIGN.
- TRAF. SIGNAL SIGN. EXTEND.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

LEGEND SHEET

CITY OF AUSTIN — FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES DIVISION

GP-2020-0085.PW

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7/27/2021 9:47 AM

CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

GENERAL CONSTRUCTION NOTES:

1. THE PROJECT MANUAL CONTAINS IMPORTANT INFORMATION THAT IS NOT REPEATED IN THE PLAN SET. THE CONTRACTOR SHALL KEEP THE PROJECT MANUAL ON SITE AND IMMEDIATELY AVAILABLE TO THOSE PERSONS PERFORMING THE WORK. UPON REQUEST, THE CONTRACTOR SHALL PRESENT THIS COPY OF THE PROJECT MANUAL TO THE CONSTRUCTION INSPECTOR, ENGINEER OR PROJECT MANAGER.

2. THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY CONSTRUCTION IN THE RIGHT OF WAY OR EASEMENTS.

3. CONTRACTOR AND SUB-CONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE STREET RIGHT OF WAY, ALLEYS, OR EASEMENTS.

4. CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS, FOR EACH PROJECT LOCATION, FROM ROW MANAGEMENT DIVISION (512-974-7180) PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE A ONE CALL CENTER CONFIRMATION NUMBER BEFORE BEING ISSUED AN EXCAVATION PERMIT.
"ONE CALL" PHONE NUMBER: 811.

5. PRE-CONSTRUCTION MEETINGS: THERE ARE TWO ENTITIES THAT HOLD PRE-CONSTRUCTION MEETINGS. THESE MEETINGS TYPICALLY DO NOT OCCUR AT THE SAME TIME. FOR PRE-CONSTRUCTION MEETING HELD BY CONSTRUCTION INSPECTION DIVISION, SEE PROJECT MANUAL SECTION 01200; FOR ENVIRONMENTAL PRE-CONSTRUCTION MEETING, SEE ENVIRONMENTAL NOTES.

6. THE CONTRACTOR SHALL NOTIFY EACH OF THE FOLLOWING ENTITIES OF THE CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION OPERATIONS AND PROVIDE PERTINENT INFORMATION ABOUT LANE CLOSURES AND DETOURS.

AUSTIN FIRE DEPARTMENT	512-974-0130
AUSTIN POLICE DEPARTMENT	512-974-5000
EMERGENCY MEDICAL SERVICES	512-978-0440
AUSTIN INDEPENDENT SCHOOL DISTRICT	512-414-9832
CAPITAL METRO TRANSIT AUTHORITY	512-389-7400
U.S. POSTAL SERVICE	512-342-1236
UNIVERSITY OF TEXAS	
(Facilities Services)	512-471-4110
(Parking and Trans)	512-471-7275
(Utilities and Energy Mgmt)	512-471-1600
(University Police)	512-471-4441
(Project Mgmt & Const. Svcs)	512-471-3042
STATE OF TEXAS	
DPS TEXAS HWY PATROL (Region 7 Austin Capitol)	512-463-3473

7. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF SURFACE, SUBSURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION IN ORDER TO AVOID DAMAGING THOSE UTILITIES.

8. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, GAS, WATER, WASTEWATER ELECTRIC, TELEPHONE, CABLE TELEVISION, PETROLEUM PIPELINES, FIBER OPTIC, STREET, DRAINAGE, AND ANY OTHER WORK OCCURRING
IN OR NEAR THE PROJECT SITE. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY, BUT NO LATER THAN TWENTY-FOUR (24) HOURS AFTER DISCOVERY.

9. SHOULD THE CONTRACTOR DAMAGE A UTILITY DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF THE DAMAGED UTILITY. THE EXPENSE FOR THESE REPAIRS WILL BE AT THE CONTRACTOR'S SOLE EXPENSE.

10. ALL EXISTING STRUCTURES, FACILITIES, AND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND TO CONDITIONS EQUAL TO OR BETTER THAN THE ORIGINAL. UNLESS OTHERWISE NOTED IN THE PLANS, THIS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT SHALL BE AT THE CONTRACTOR'S SOLE
EXPENSE.

11. SLOPES OF ROADWAY CUTS AND EMBANKMENTS DAMAGED BY ANY OPERATION OF THE CONTRACTOR DURING THE EXECUTION OF THIS PROJECT SHALL BE REPAIRED AND RESTORED TO THE ORIGINAL PRE-CONSTRUCTION CONDITION. BACKFILL AND FILL PLACED DURING REMEDIAL GRADING SHALL BE COMPACTED TO AT LEAST 95% COMPACTION AND TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITIES.

12. GEOTECHNICAL INFORMATION IS PROVIDED IN THE PROJECT MANUAL SECTION 00220.

13. SEE PROJECT MANUAL SECTION 01300 FOR RECORD DRAWINGS INFORMATION.

STREET AND BRIDGE SPECIAL NOTE:

ALL DAMAGE CAUSED DIRECTLY OR INDIRECTLY TO THE STREET SURFACE, SIDEWALK, DRIVEWAY, CURB & GUTTER, OR SUBSURFACE OUTSIDE OF THE PAVEMENT CUT AREA SHALL BE REGARDED AS A PART OF THE STREET CUT REPAIR. THIS INCLUDES ANY SCRAPES,GOUGES, CUTS, CRACKING, DEPRESSIONS, AND/OR ANY OTHER DAMAGE CAUSED BY THE CONTRACTOR DURING THE EXECUTION OF THE WORK. THESE REPAIR AREAS WILL BE INCLUDED IN THE TOTAL AREA OF RESTORATION. THESE AREAS SHALL BE SAW CUT IN STRAIGHT, NEAT LINES PARALLEL TO THE EXCAVATION OR UTILITY TRENCH AND TO THE NEXT EXISTING JOINT FOR SIDEWALKS AND CURB & GUTTER. ALL SUCH REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL MEET ALL CITY TESTING REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.

SEQUENCE OF CONSTRUCTION

1. SEE REMEDIAL TREE CARE NOTE (ECM P-6) .

2. HOLD PRE-CONSTRUCTION CONFERENCE.

3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.

4. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE WATERSHED PROTECTION DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.

5. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.

6. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).

7. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.

8. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.

9. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.

10. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.

11. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.

12. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.

13. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

14. COMPLETE PERMANENT EROSION CONTROL AND SITE RESTORATION. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION. RESTORE ANY AREAS DISTURBED DURING REMOVAL OF EROSION/SEDIMENTATION CONTROLS.

EXCEPTIONS TABLE

NOTE #	EXPLANATION OF EXCEPTION

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
   - THE NAME OF THE APPROVED PROJECT;
   - THE ACTIVITY START DATE; AND
   - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.

2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.

3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.

4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.

5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.

7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.

8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.

9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.

10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.

11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
   - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
   - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION
     OF THE SITE; AND
   - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:

A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;

B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;

C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

AUSTIN REGIONAL OFFICE 12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TEXAS 78753-1808 PHONE (512) 339 - 2929 FAX (512) 339 - 3795	SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490 - 3096 FAX (210) 545 - 4329

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
DC # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

GENERAL CONSTRUCTION NOTES

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

G-004 | 4 OF 89

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7/27/2021 9:49 AM

AUSTIN WATER GENERAL CONSTRUCTION NOTES (11/23/2017):

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION DEPARTMENT INSPECTION OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE AW PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA “ONE CALL” SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE / INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE / APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMAL PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUTOUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A AND WW 27-F.
10. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 AND SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS OR OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPURTENANCES.
11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
12. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
13. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
14. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY THE AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
16. WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLATIONS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ON-SITE UTILITY WORK.
19. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AND CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.
20. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
21. SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATES OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTION TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN CONTRACT DRAWINGS.
22. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
23. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY “LEAD FREE” ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.
24. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133.
25. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.
26. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.
27. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
28. ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.
29. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.
30. PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IR PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

GENERAL NOTES

ALL RESPONSIBILITY FOR THE ADEQUECY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.

REVIEWED BY AUSTIN WATER APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICATION OF BUILDING INSPECTIONS.

USE OF ELECTRONIC FILES GENERAL DISCLAIMER: USE OF THE ATTACHED FILES IN ANY MANNER INDICATES YOUR ACCEPTANCE OF TERMS AND CONDITIONS AS SET FORTH BELOW. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS, PLEASE CONTACT AUSTIN WATER PIPELINE ENGINEERING, PROJECT COORDINATOR PRIOR TO USE OF THE REFERENCED INFORMATION. PLEASE BE ADVISED THAT THE ATTACHED FILES ARE IN A FORMAT THAT CAN BE ALTERED BY THE USER. DUE TO THIS FACT, ANY REUSE OF THE DATA WILL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE CITY OF AUSTIN AND USER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF AUSTIN FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM USING THE DIGITAL FILE. IN ADDITION, IT IS THE RESPONSIBILITY OF THE USER TO COMPARE ALL DATA WITH THE PDF VERSION OF THIS DRAWING. IN THE EVENT THERE IS A CONFLICT BETWEEN THE PDF VERSION DRAWING AND THE ELECTRONIC FILE, THE PDF VERSION DRAWING SHALL PREVAIL.

INSPECTION NOTES

PLEASE CONTACT CID INSPECTIONS FOR ARRANGEMENTS FOR PAYMENT OF INSPECTION FEES AND JOB ASSIGNMENT FOR INSPECTION OF THE PUBLIC UTILITIES TO THIS SITE. INSPECTION FEES MUST BE PAID BEFORE ANY PRE-CONSTRUCTION MEETING CAN BE HELD.

DOES THIS PROJECT NEED AULCC REVIEW ?

☒YES

☐NO

IF YES, PLEASE PROVIDE UCC-140529-05-02

NOTE: IF THE PROJECT IS LOCATED WITHIN FULL PURPOSE JURISDICTION, A RIGHT-OF-WAY REVIEW, THROUGH THE AULCC PERMIT PROCESS WILL BE REQUIRED.

PROJECT INFORMATION[1]

AW INFRASTRUCTURE INFORMATION			
PROPOSED PRODUCT TYPE (TO BE INSTALLED)	LENGTH OF PIPE (L.F.)	SIZE OF PIPE (INCH)	NO. OF SERVICES
WATER MAIN			NA
WASTEWATER MAIN			NA
RECLAIMED WATER MAIN			NA
WATER SERVICE	NA	NA	
WASTEWATER SERVICE	NA	NA	
RECLAIMED WATER SERVICE	NA	NA	

EXPAND OR REDUCE TABLE AS NEEDED*
THE INFORMATION INCLUDED IN THIS TABLE ARE APPROXIMATE VALUES ESTIMATED BASED ON GENERAL ENGINEERING GUIDELINES

UTILITY CRITERIA MANUAL WAIVER SUMMARY NOTES AND EXCEPTION GUIDELINES

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27 2021
RUBÉN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR LIC. # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

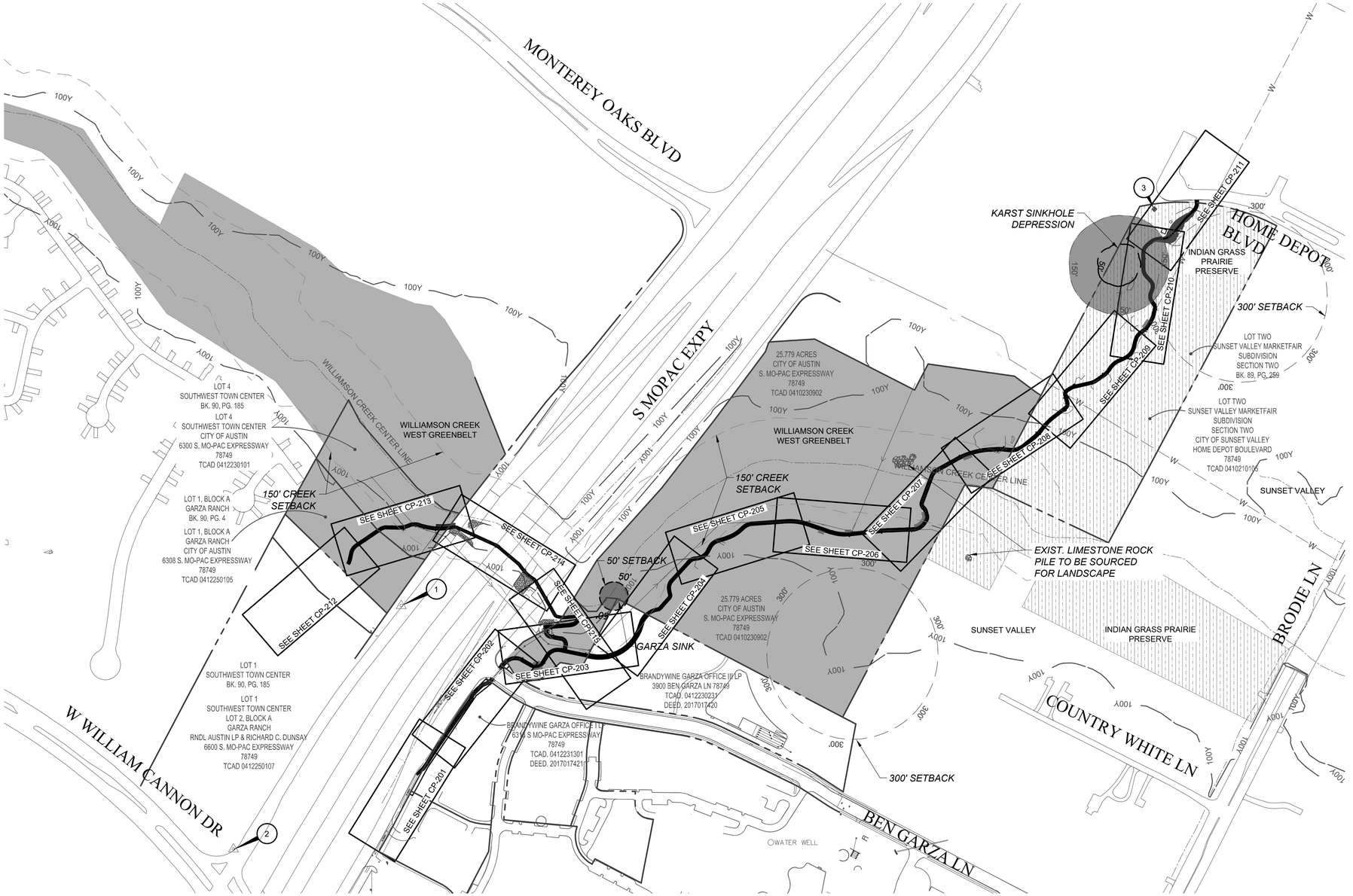
VIOLET CROWN TRAIL - NORTH
PHASE 2A

GENERAL INFORMATION & CONSTRUCTION NOTES
FOR CAPITAL IMPROVEMENT PROJECTS

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES DIVISION

GP-2020-0085.PW



LEGEND	
ID	DESCRIPTION
	SUNSET VALLEY
	PARD

SURVEY CONTROL TABLE						
NUMBER	NORTHING (GRID)	EASTING (GRID)	NORTHING (PLAN)	EASTING (PLAN	ELEVATION	DESCRIPTION
1	10053852.35	3085630.29	10053852.35	3085630.29	739.97	1/2" REBAR WITH CAP STAMPED "COA PUBLIC WORKS"
2	10052999.00	3085042.53	10052999.01	3085042.53	741.70	1/2" REBAR WITH CAP STAMPED "COA PUBLIC WORKS"
3	10055242.00	3088269.00	10055242.00	3088269.00	719.00	BOREHOLE LOCATION

SURVEYOR ENGINEER: COA QMD
MARY P. HAWKINS, RPLS, LICENSE # 4433
ADDRESS: 505 BARTON SPRINGS RD. 7TH FLOOR, SUITE 700
AUSTIN,TX 78704.
PHONE: (512) 974 - 2661

TREE SURVEY COMPLETED AS PART OF TOPOGRAPHY SURVEY ON 10/22/2019

1. GRID COORDINATE VALUES ARE TEXAS STATE PLANE COORDINATES NAD 83 (2011) EPOCH 2010, CENTRAL ZONE. THE GRID COORDINATES FOR CONTROL POINT 1 ARE EQUAL TO THE PLAN COORDINATES (SURFACE DISTANCE COORDINATE VALUES) FOR CONTROL POINT 1 FOR THIS PROJECT.
2. CONTROLLING MONUMENTS FOR THIS PROJECT ARE POINT 1 AND POINT 2 AND THE GRID COORDINATES FOR BOTH POINTS WERE ESTABLISHED FROM MEANED MULTIPLE VRS GPS OBSERVATIONS.
3. ELEVATIONS WERE ESTABLISHED UTILIZING MEANED VRS GPS OBSERVATIONS ON CONTROL POINTS. THE BASIS OF THESE ELEVATIONS ARE NAVD 88 (GEOID 12A).
4. THE COMBINED SCALE FACTOR FOR THIS PROJECT IS 0.999937853.

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

OVERALL MAP

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

G-101 | 6 OF 89

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 1 OF 7

CITY OF AUSTIN
FOUNDED 1839

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HORIZONTAL SCALE IN FEET

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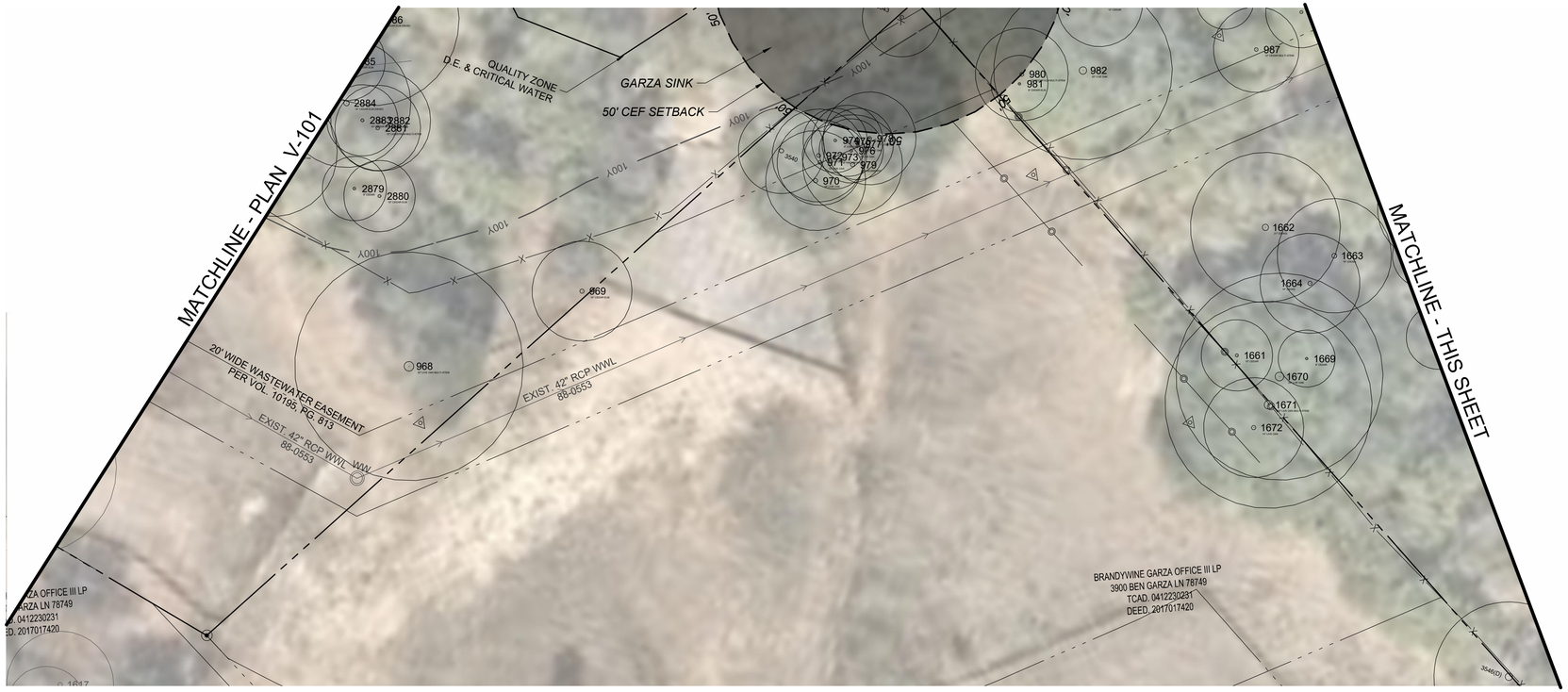

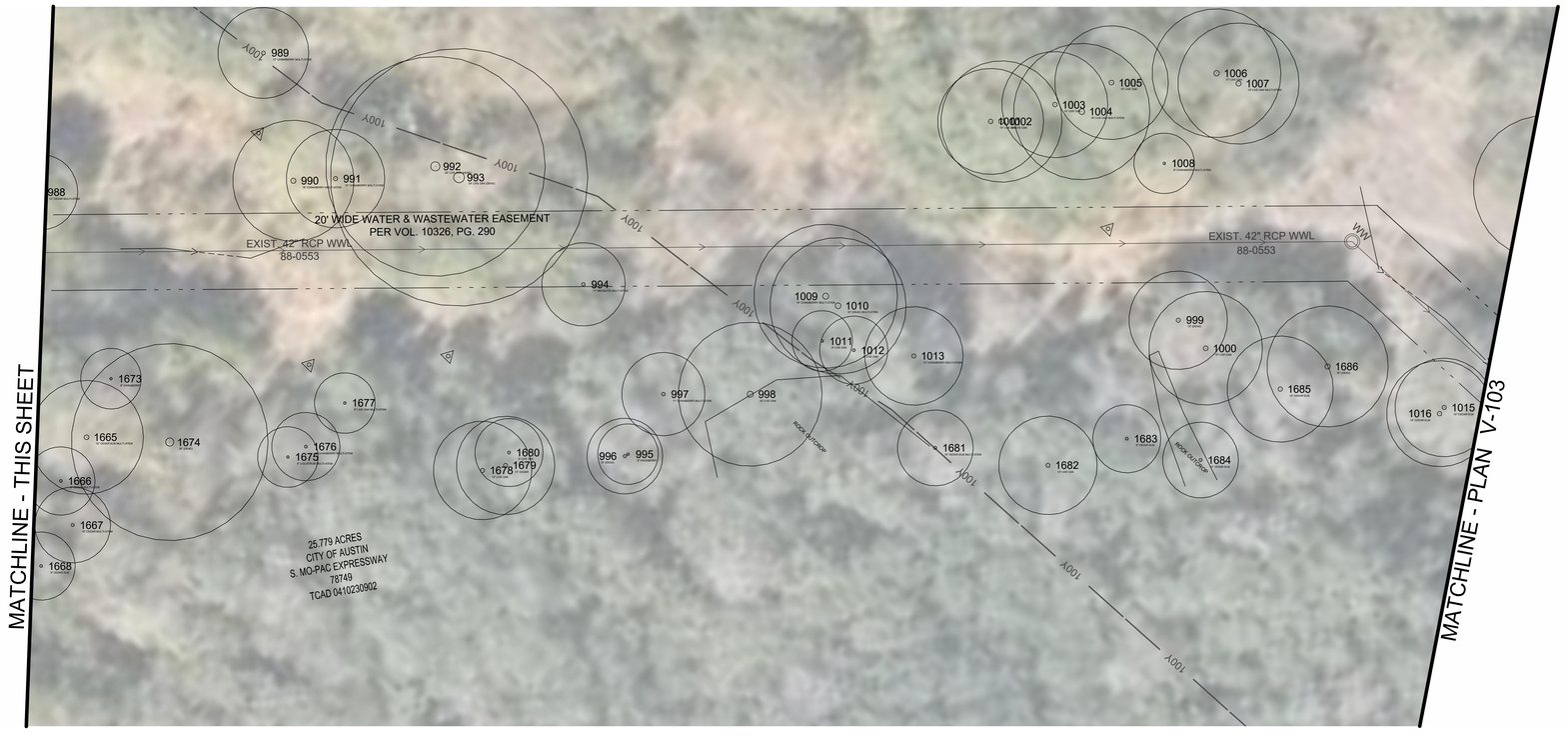

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 2 OF 7

CITY OF AUSTIN

NOTES	NAME	DATE
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REVIEWED BY	RL	12/2015

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 3 OF 7

CITY OF AUSTIN
FOUNDED 1839

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CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 4 OF 7

CITY OF AUSTIN
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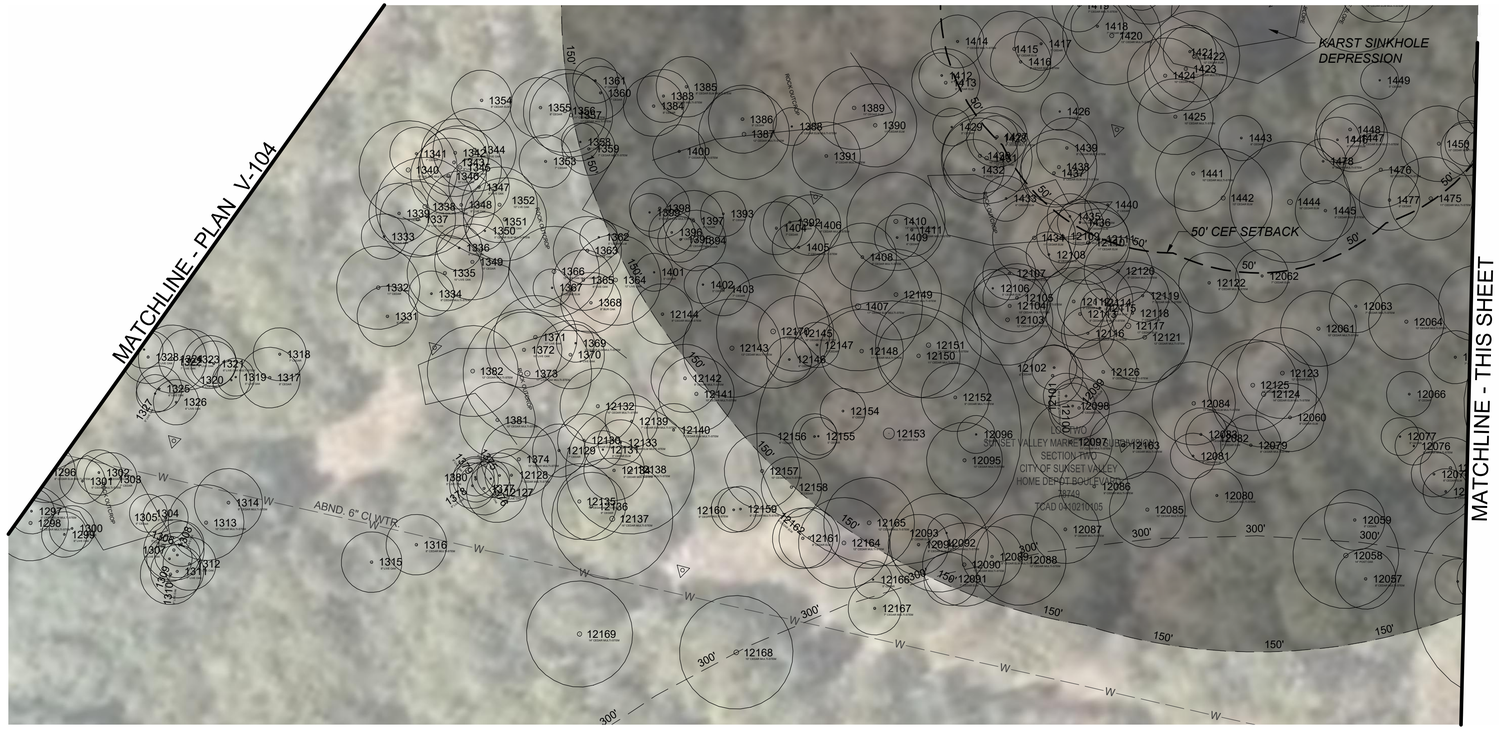

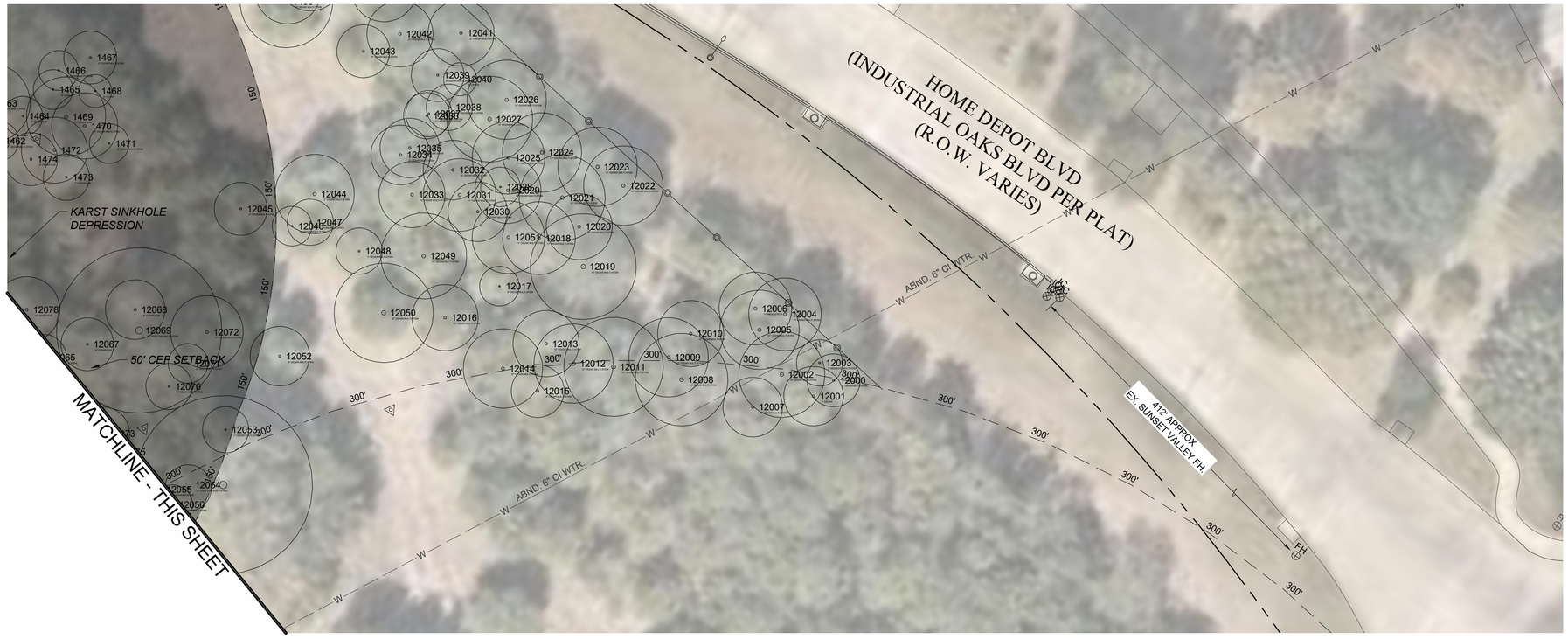

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 5 OF 7

CITY OF AUSTIN

NOTES	NAME	DATE
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REVIEWED BY	RL	12/2015

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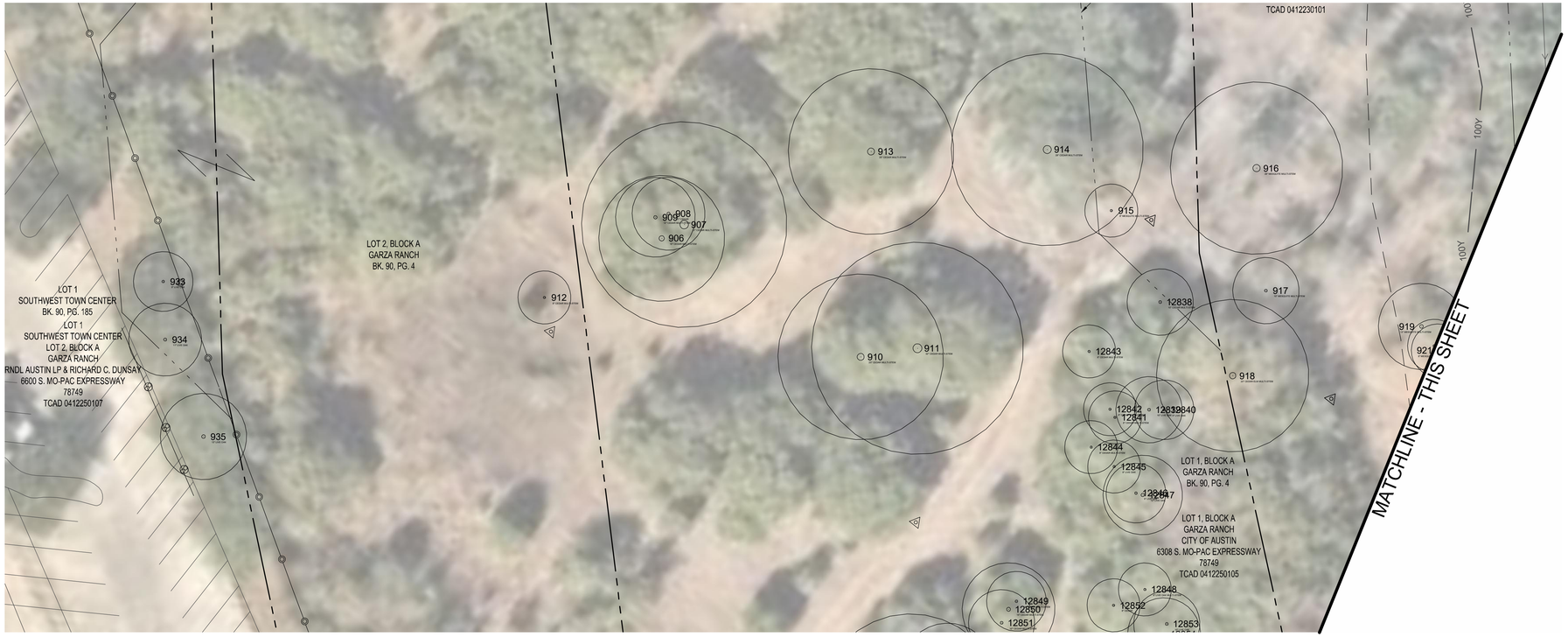

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 6 OF 7

CITY OF AUSTIN
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CHECKED BY	ESD	12/2015
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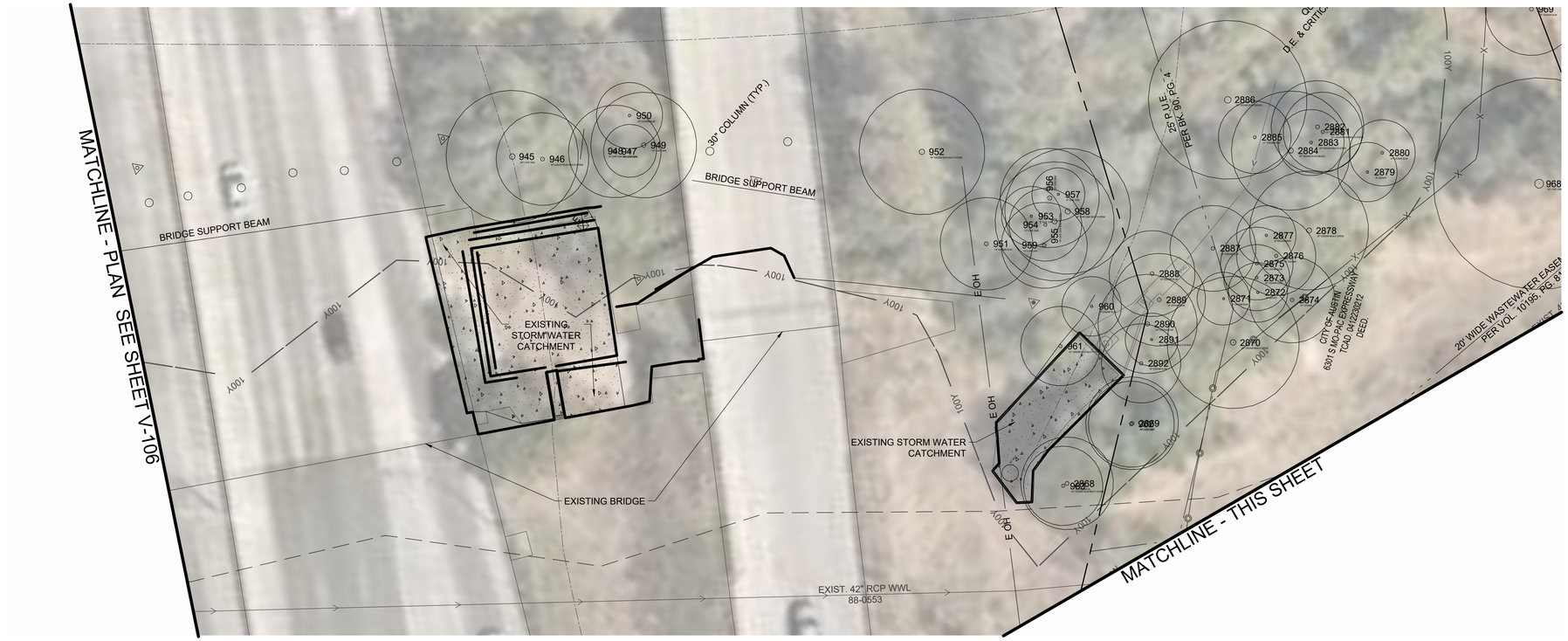

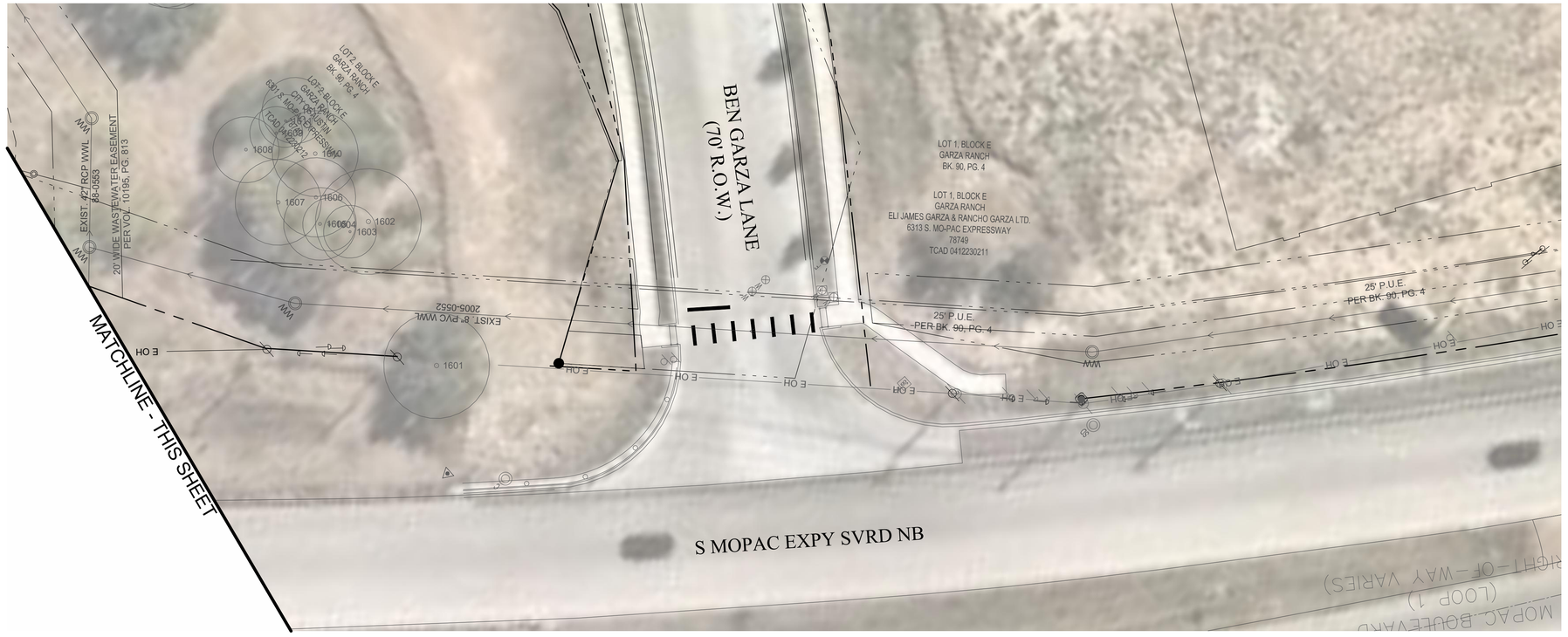

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EXISTING CONDITIONS PLAN
SHEET 7 OF 7

CITY OF AUSTIN

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CHECKED BY	ESD	12/2015
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7/27/2021 9:53 AM

CITY OF AUSTIN - STANDARD NOTES
EROSION AND SEDIMENTATION CONTROL
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).

2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.

4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER, PERMIT APPLICANT, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND THE TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE GENERAL PERMIT PROGRAM OFFICE AT 512/974-6330, AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.

5. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER AND THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT DAILY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. SILT ACCUMULATION AT INLET DEVICES SHOULD BE REMOVED WHEN THE DEPTH REACHES TWO (2) INCHES.

7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT OR LARGER IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME, IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT THE GENERAL PERMIT PROGRAM REPRESENTATIVE FOR FURTHER INVESTIGATION.

9. FIELD REVISIONS TO THE EROSION/SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES. ANY REVISIONS TO THE PERMITTED PLAN MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.

10. PERMANENT EROSION/SEDIMENTATION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE THE CRITERIA MANUAL AND CONTRACT DOCUMENTS DIFFER THE MOST ENVIRONMENTALLY BENEFICIAL MATERIALS/METHOD SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

11. DEVELOPER INFORMATION:

OWNER: PUBLIC WORKS/ COMMUNITY SERVICES DIVISION
COMPANY: CITY OF AUSTIN
CONTACT: JANAE SPENCE
ADDRESS: 505 BARTON SPRINGS RD. AUSTIN TEXAS 78704

PHONE: (512) 974-3159
E-MAIL: janae.spence@austintexas.gov

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:
COMPANY: CITY OF AUSTIN
CONTACT: RUBEN LOPEZ JR.
ADDRESS: 505 BARTON SPRINGS RD. AUSTIN TEXAS 78704

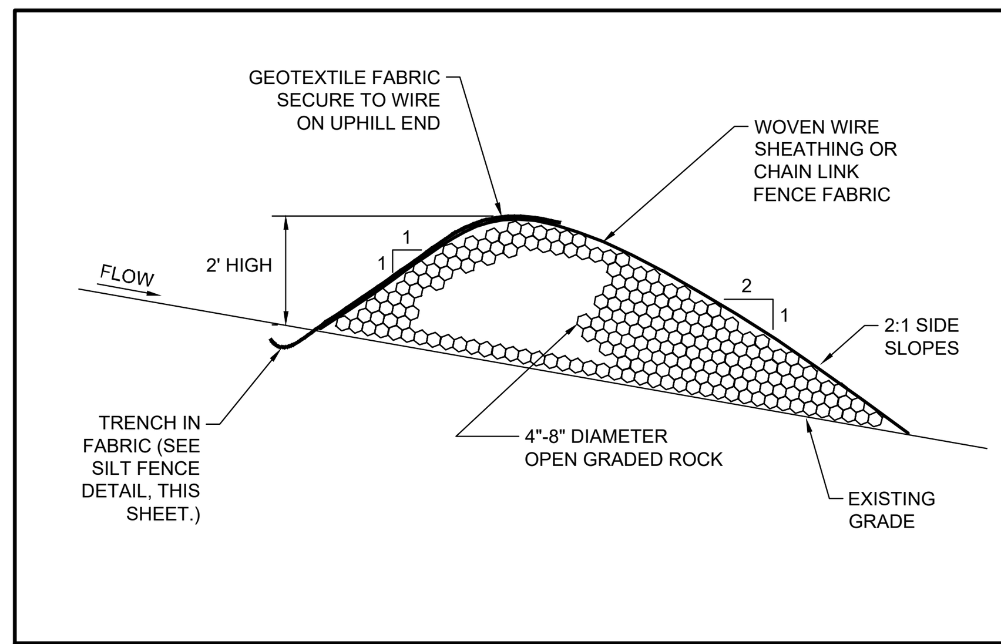
PHONE: (512) 974-7159
E-MAIL: ruben.lopez@austintexas.gov

PARTY RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:
COMPANY: CONTRACTOR

PARTY RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:
COMPANY: CONTRACTOR

12. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE GENERAL PERMIT PROGRAM REPRESENTATIVE, AT 974-6330, AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

13. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO STREET WORK, AND WILL BE REMOVED AS SOON AS THE GENERAL PERMIT PROGRAM REPRESENTATIVE AGREES THAT THERE IS NO POTENTIAL FOR SEDIMENTATION.



NOTES:

1. USE ONLY OPEN GRADED ROCK, 4-8 INCH DIAMETER, FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK, 3-5 INCH DIAMETER, FOR OTHER CONDITIONS.

2. ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.

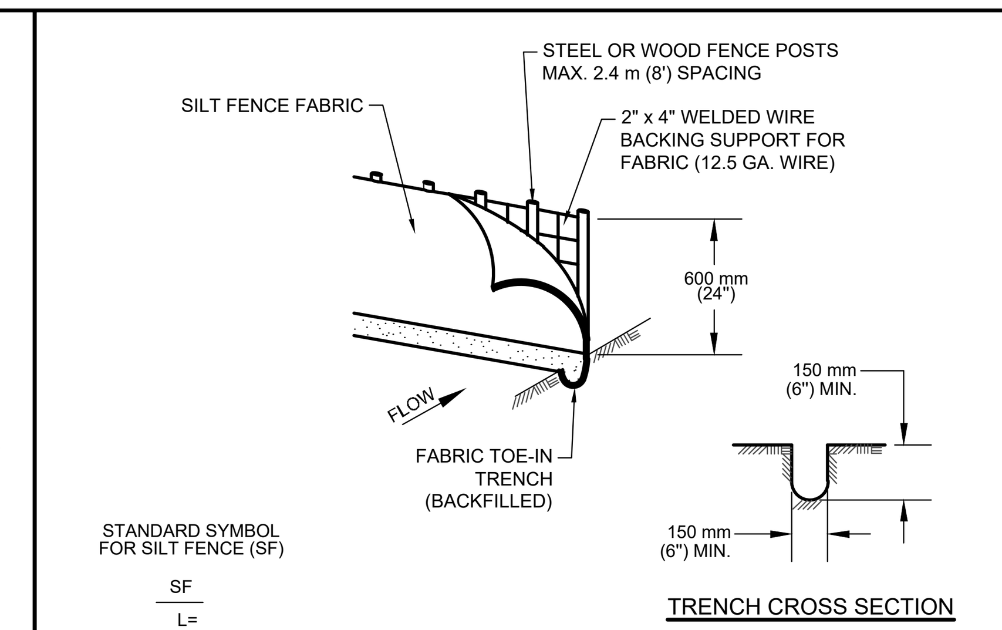
3. ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.

5. DAILY INSPECTION SHALL BE MADE ON SEVERE SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.

6. WHEN SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

	FABRIC COVERED (SEVERE SERVICE) ROCK BERM	
GENERAL PERMIT PROGRAM — *N / A* — APPROVED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. N / A



1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

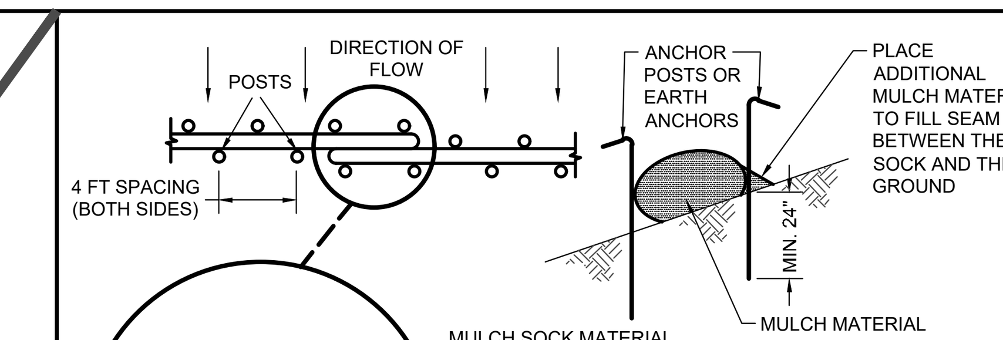
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS — *09/01/2011* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1

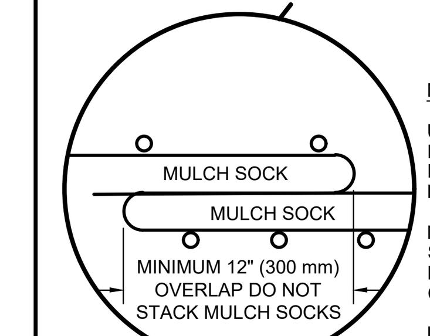
NOTES:
1. MATERIAL- THE FABRIC MUST CORRESPOND TO THE FOLLOWNG REQUIREMENTS:

PROPERTY	ASTM TEST METHOD	REQUIREMENTS
FABRIC WEIGHT	D 3776	≥ 3.0 OUNCES / SQUARE YARD
ULTRAVIOLET (UV) RADIATION STABILITY	D 4355	70% STRENGTH RETAINED MIN., AFTER 500 HOURS IN XENON ARC DEVICE
MUUEN BURST STRENGTH	D 3786	≥ 120 POUND PER SQUARE INCH
WATER FLOW RATE	D 4491	≥ 275 GALLONS / MINUTE / SQUARE FEET

2. THIS MATERIAL SHOULD HAVE A MAXIMUM EXPECTED USEFUL LIFE OF APPROXIMATELY EIGHTEEN (18) MONTHS. THE INLET PROTECTION DEVICES SHOULD BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN OUT AND DISPOSAL OF TRAPPED SEDIMENT WILE MINIMIZING INTERFERENCE WITH CONSTRUCTION ACTIVITIES. THEY SHOULD ALSO BE CONSTRUCTED SUCH THAT ANY PONDING OF STORM WATER WILL NOT CAUSE EXCESSIVE R.O.W. FLOODING (I.E.< 4 INCHES OF STANDING WATER) OR DAMAGE TO THE STRUCTURE OR ADJACENT AREAS.
3. COVERAGE -THE FABRIC / WIRE SHOULD COMPLETELY COVER THE OPENING OF THE INLET AND DEVICES SHOULD BE INSTALLED WITHOUT PROTRUDING PARTS THAT COULD BE A TRAFFIC, WORKER, OR PEDESTRIAN HAZARD. WHERE SECTIONS OF THE FABRIC OVERLAP, THEY SHALL OVERLAP AT LEAST THREE (3) INCHES.
4. THE INLET FILTER SHALL BE ATTACHED IN A WAY THAT THEY CAN EASILY BE REMOVED AND ARE NOT SECURED OR ATTACHED BY THE USE OF SAND BAGS. THE INLET FILTER MUST BE REMOMD UPON COMPLETION OF WORK. IF REMOVAL DAMAGES THE CONCRETE CURB, THE CURB MUST BE REPAIRED IMMEDIATELY.
5. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN THE DEPTH REACHES 50 MM (2 INCHES) INCHES OR ONE THIRD THE HEIGHT OF THE INLET THROAT, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
6. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORMWATER BEGINS TO OVERTOP THE CURB.
7. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT HAS ACHIEVED FINAL STABILIZATION CONDITIONS.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	FILTER DIKE CURB INLET PROTECTION	
RECORD COPY SIGNED BY MAPI VIGIL — *10/30/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 628S-2





MULCH SOCK MATERIAL

USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

NOTES:

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.

2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OFMULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).

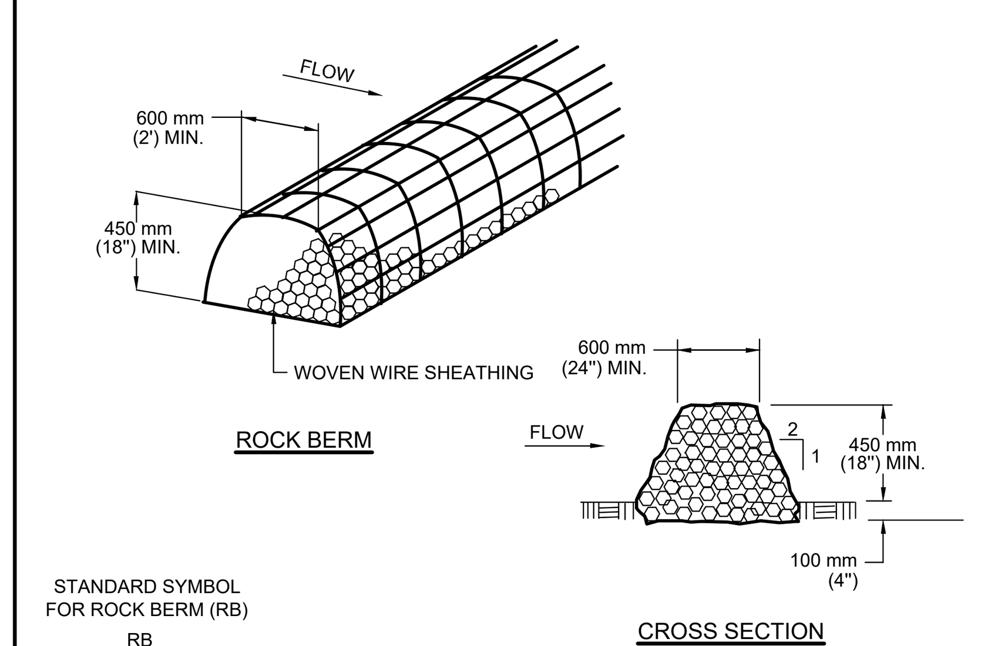
3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.

4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.

5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.

6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	MULCH SOCK	
RECORD COPY SIGNED BY MORGAN BYARS — *08/24/2010* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1



NOTES:
1. USE ONLY OPEN GRADED ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.

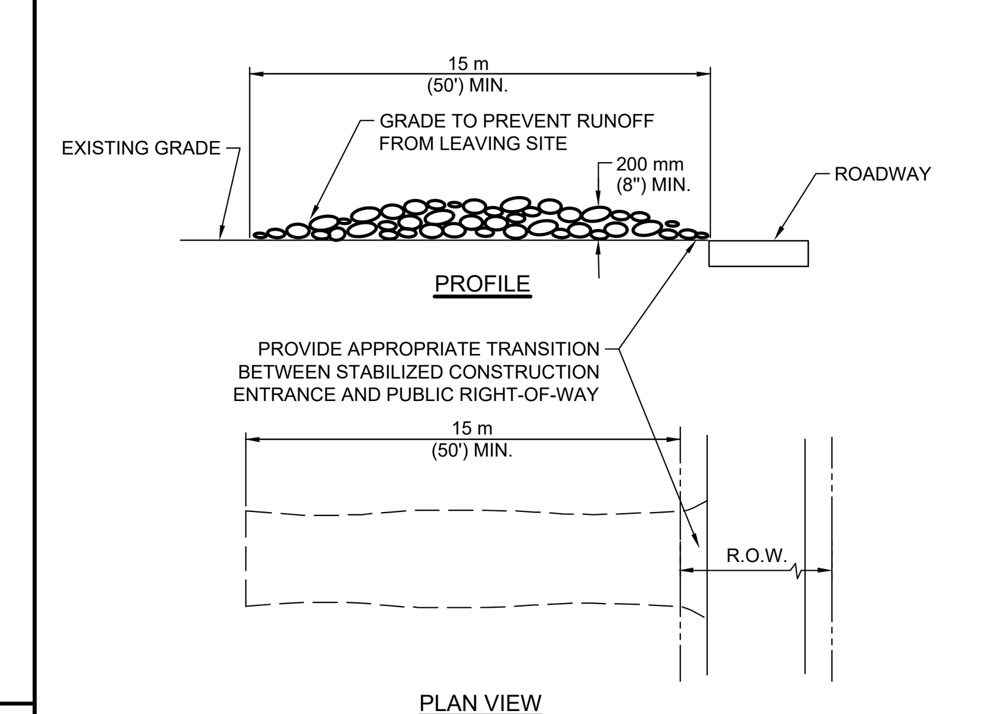
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).

3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTION PROBLEM.

5. WHEN THE SITE IS COMPLETELY STABILIZED,THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

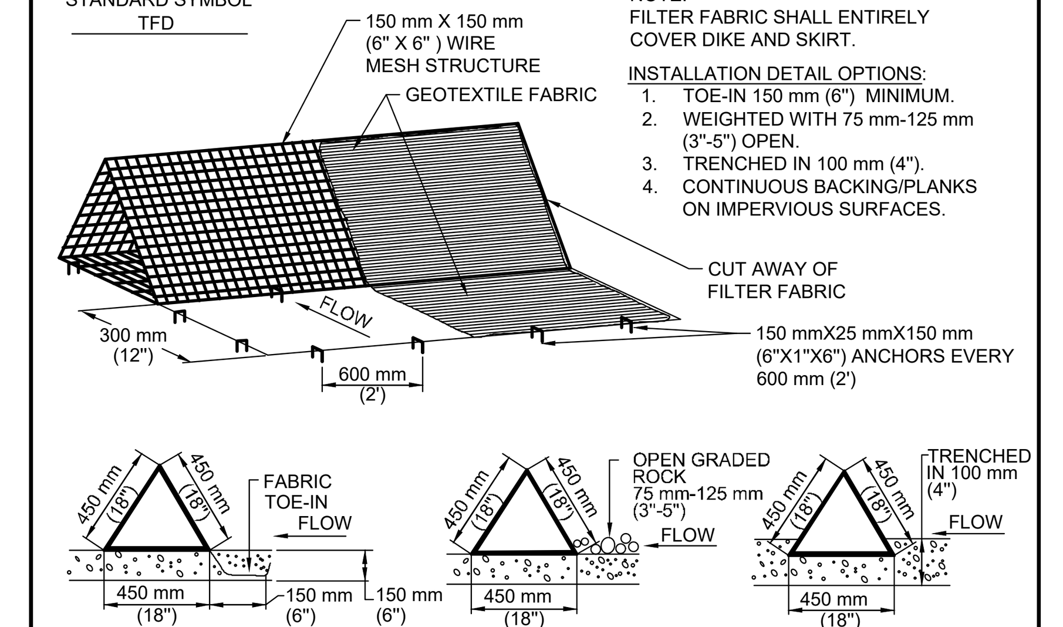
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	ROCK BERM	
RECORD COPY SIGNED BY MORGAN BYARS — *8/24/2010* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 639S-1



NOTES:
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	STABILIZED CONSTRUCTION ENTRANCE	
RECORD COPY SIGNED BY J. PATRICK MURPHY — *5/23/00* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1

STANDARD SYMBOL
TFD

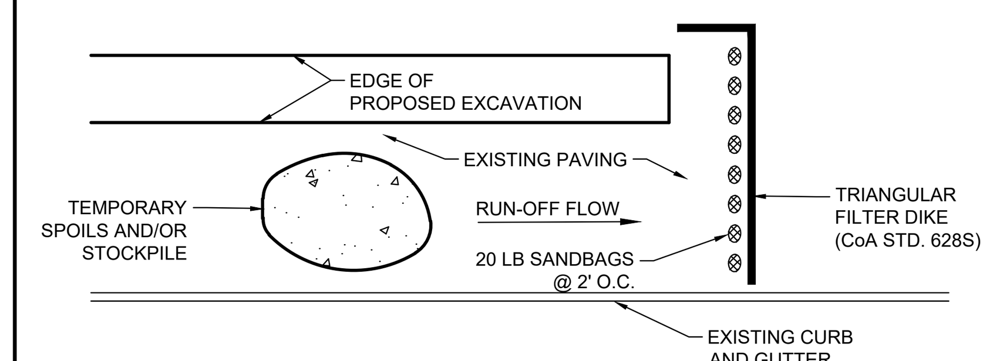


NOTE:
FILTER FABRIC SHALL ENTIRELY COVER DIKE AND SKIRT.

INSTALLATION DETAIL OPTIONS:
1. TOE-IN 150 mm (6") MINIMUM.
2. WEIGHTED WITH 75 mm-125 mm (3"-5") OPEN.
3. TRENCHED IN 100 mm (4").
4. CONTINUOUS BACKING/PLANKS ON IMPERVIOUS SURFACES.

GENERAL NOTES
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 75-125 mm (3-5") OPEN GRADED ROCK OR TOED-IN 150 mm (6") WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED IN 100 mm (4").
4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 150 mm (6") WIRE STAPLES ON 600 mm (2') CENTERS ON BOTH EDGES AND SKIRT, OR STAKE USING 10M (3/8") DIAMETER RE-BAR WITH TEE ENDS.
5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 150 mm (6") TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
6. THE DIKE STRUCTURE SHALL BE MW40-150 mmX150 mm (6 GA. 6"X6") WIRE MESH, 450 mm (18") ON A SIDE.
7. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6") AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
9. AFTER THE DEVELOPMENT SITE IS COMPLETLY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTE 8 ABOVE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TRIANGULAR SEDIMENT FILTER DIKE	
RECORD COPY SIGNED BY J. PATRICK MURPHY — *3/27/00* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 628S



NOTES:
1. THE TEMPORARY SPOILS/STOCKPILE STORAGE AREA AND STAGING AREA MAY BE LOCATED DIRECTLY ADJACENT TO THE EXCAVATION AND ON THE PAVEMENT.
2. ANY SPOIL NOT INTENDED TO BE REUSED WILL BE HAULED TO AN APPROVED OR PERMITTED DISPOSAL SITE DAILY.
3. INSTALL TRIANGULAR SEDIMENT FILTER DIKE (DETAIL 628S) ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB AND PLACED TO EFFECTIVELY CATCH AND CONTAIN SEDIMENT LADEN RUNOFF FROM THE EXCAVATED AREA. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.

ADDITIONAL EROSION/SEDIMENTATION CONTROL FOR WORK IN PAVED AREAS FOR GENERAL PERMIT PROGRAM PROJECTS

GENERAL PERMIT OFFICE
EROSION/SEDIMENTATION CONTROL
CITY OF AUSTIN STANDARD NOTES AND DETAILS

GENERAL PERMIT PROGRAM

NO.	BY	DATE	REMARKS

REVISIONS

ENGINEERING SERVICES DIVISION

GP-2020-0085.PW

CE-001 14 OF 89

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GENERAL PERMIT PROGRAM (GPP)
STANDARD ENVIRONMENTAL NOTES:

ADDITIONAL AREAS:

1. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION OF THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED ADDITIONAL AREAS PRIOR TO USE. APPROVAL OF "CORRECTION REQUEST" MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.

2. ALL ASSOCIATED PERMITS AND FEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

3. IN ORDER TO SECURE APPROVAL FOR USE OF ADDITIONAL AREAS, CONTRACTOR MUST PROVIDE COMPLETE "CORRECTION REQUEST" SUBMITTAL TO GENERAL PERMIT PROGRAM OFFICE AND ALLOW A ONE WEEK COMMENT PERIOD FOR EACH REVIEW. CONTRACTOR SHOULD REQUEST INFORMATION ON THE ELEMENTS REQUIRED TO BE INCLUDED IN THE SUBMITTAL FROM THE OWNER'S REPRESENTATIVE OR THE GENERAL PERMIT PROGRAM OFFICE.

4. CONTRACTOR MUST INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION FOR ALL SUCH AREAS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL AND AS INCLUDED IN THE APPROVED SUBMITTAL OR DIRECTED IN THE FIELD BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

5. A SIGNED COPY OF THE PLANS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM MUST BE KEPT ON SITE AND ACCESSIBLE AT ALL TIMES DURING PROJECT CONSTRUCTION.

DEWATERING:

CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREA. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED DEWATERING PROCEDURES PRIOR TO INSTALLATION OR USE. APPROVAL MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM (GPP) OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. CONTRACTOR MUST PROVIDE COMPLETE SUBMITTAL TO GPP OFFICE AND ALLOW AN ONE WEEK (MIN.) COMMENT PERIOD FOR EACH REVIEW. CONTACT THE GPP OFFICE FOR SUBMITTAL REQUIREMENTS.

FUEL STORAGE:

FUEL STORAGE IS PROHIBITED ON THIS PROJECT. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE GENERAL PERMIT PROGRAM OFFICE IMMEDIATELY FOLLOWING ANY SPILL OF FUEL OR OTHER TOXIC MATERIAL. CONTRACTOR IS REQUIRED TO FOLLOW-UP WITH WRITTEN DOCUMENTATION, INCLUDING A COMPLETE DESCRIPTION OF THE INCIDENT, MATERIAL SPILLED, AND ACTIONS TAKEN TO CONTAIN AND CLEAN-UP MATERIAL.

FUGITIVE DUST CONTROL:

ALL PROJECTS APPROVED THROUGH THE GENERAL PERMIT PROGRAM (GPP) MUST COMPLY WITH THE CODE OF THE CITY OF AUSTIN AND THE ENVIRONMENTAL CRITERIA MANUAL REQUIREMENTS TO CONTROL AIRBORNE DUST. COMPLIANCE IS REQUIRED FOR ENTIRE PROJECT SITE AS WELL AS ASSOCIATED OPERATIONS. CONTACT THE GPP OFFICE FOR RECOMMENDED CONTROL METHODS.

SPOILS STORAGE:

NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE, A 100-YEAR FLOODPLAIN, OR ON A SLOPE WITH A GRADIENT OF MORE THAN 15 PERCENT.

E/S CONTROLS FOR BORE / RECEIVING PIT LOCATIONS:

TEMPORARY E/S CONTROLS MUST SURROUND THE ENTIRETY OF BORING OPERATIONS, INCLUDING PIT, EQUIPMENT, ETC. FOR LOCATIONS WITHIN IMPERVIOUS AREAS, TEMPORARY CONTROL WILL BE TRIANGULAR FILTER DIKE (COA STANDARD DETAIL #628S). DIKE FLAP WILL BE CONTINUOUSLY WEIGHTED DOWN THROUGH THE USE OF 1" BY 4" WOOD STRIPS NAILED TO THE PAVEMENT, EXCEPT FOR THE ACCESS POINT. PLACEMENT OF TEMPORARY E/S CONTROLS ACROSS ACCESS POINT WILL BE REQUIRED WHENEVER THE SITE IS NOT ACTIVELY USED. FOR LOCATIONS WITHIN PERVIOUS AREAS, TEMPORARY CONTROL WILL BE SILT FENCE (COA STANDARD DETAIL #642S-1) OR MULCH SOCKS (COA STANDARD DETAIL #648S-1), AS INDICATED ON APPROVED PLANS.

SOIL RETENTION BLANKET:

UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS, INSTALLATION OF SOIL RETENTION BLANKET WILL BE REQUIRED FOR ALL IMPACTED SLOPES GREATER THAN 3:1 AND ALL IMPACTED AREAS WITHIN DRAINAGE CONVEYANCES. (CITY OF AUSTIN STANDARD SPECIFICATION ITEM 605S) SOIL RETENTION BLANKET SUBMITTAL MUST BE APPROVED BY PROJECT ENGINEER AND GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO USE AND MUST INCLUDE PRODUCT AND INSTALLATION DETAILS PROVIDED BY MANUFACTURER. FINISH GRADING MUST BE INSPECTED AND APPROVED BY GPP INSPECTOR PRIOR TO BLANKET INSTALLATION. INSTALLATION MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MUST BE INSPECTED AND APPROVED BY GPP REPRESENTATIVE PRIOR TO ACCEPTANCE.

SOD INSTALLATION:

REVEGETATION WITHIN MANAGED TURF AREAS MUST BE ACCOMPLISHED THROUGH THE INSTALLATION OF SOLID BLOCK GRASS SOD. SOD TYPE MUST MATCH ADJACENT GRASS TYPE. QUESTIONS REGARDING SOD TYPE WILL BE RESOLVED BY THE GENERAL PROGRAM PERMIT REPRESENTATIVE. REFER TO CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 602S: SODDING FOR EROSION CONTROL, UNLESS OTHERWISE NOTED ON THE APPROVED PLANS.

TxDOT RIGHTS-OF-WAY:

TOPSOIL (TxDOT ITEM NO. 160), SOIL RETENTION BLANKET (TxDOT ITEM NO. 169), AND REVEGETATION (TxDOT ITEM NO. 164) INSTALLED WITHIN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY SHALL COMPLY WITH "REQUIREMENTS FOR INSTALLATION OF UTILITIES WITHIN THE STATE RIGHT-OF-WAY, AUSTIN DISTRICT".

PROJECT SEQUENCE:
(REFER TO FULL PLAN SET FOR PROJECT-SPECIFIC ADDITIONS, IF APPLICABLE.)

PRIOR TO CONSTRUCTION:

1. SECURE APPLICABLE COA PERMITS, INCLUDING APPROVAL UNDER GENERAL PERMIT PROGRAM AND RIGHT-OF-WAY EXCAVATION PERMIT.

2. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PLACEMENT OF E/S CONTROLS AND TREE PROTECTION FENCING. ALL PROPOSED PHASING OF CONTROLS MUST BE SUBMITTED TO AND APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO THE FIELD PRE-CONSTRUCTION CONFERENCE.

3. NOTIFY COA TEMPORARY TRAFFIC CONTROL REPRESENTATIVE PRIOR TO PLACEMENT OF TEMPORARY TRAFFIC CONTROLS. ALL PROPOSED PHASING OF CONTROLS MUST BE INDICATED ON APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND SEALED BY PROFESSIONAL ENGINEER.

4. PLACE TEMPORARY E/S CONTROLS AND TREE PROTECTION FENCING PRIOR TO BEGINNING ANY EXCAVATION. INSTALL C.I.P. SIGN, IF APPLICABLE.

5. HOLD ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF E/S CONTROLS AND TREE PROTECTION FENCING AND PRIOR TO ANY TRENCHING OPERATIONS.

6. PLACE TEMPORARY TRAFFIC CONTROL DEVICES.

PROJECT CONSTRUCTION:

1. BEGIN CONSTRUCTION. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.

2. CONTACT GENERAL PERMIT OFFICE TO SCHEDULE FIELD INSPECTION PRIOR TO BEGINNING INSTALLATION OF PERMANENT E/S CONTROLS.

3. COMPLETE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES FOR THIS PROJECT. (PERMANENT E/S CONTROLS)

4. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES RELATED TO WORK AREAS OUTSIDE OF THE STREET.

5. HOLD ENVIRONMENTAL POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE. ALL PERMANENT E/S CONTROLS MUST BE ACCEPTED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. PERMANENT CONTROLS SHALL CONSIST OF REVEGETATION PER DETAILS 602, 604S, AND 609S AS INDICATED ON APPROVED PLANS.

6. FOLLOWING FINAL ACCEPTANCE OF PERMANENT E/S CONTROLS BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE, REMOVE TEMPORARY E/S CONTROLS. CLEAN EXISTING STORM DRAINAGE SYSTEMS AS NECESSARY DUE TO CONSTRUCTION OPERATIONS.

7. DRESS-UP AND RESTORE ANY AREAS DISTURBED BY REMOVAL OF TEMPORARY E/S CONTROLS DESCRIBED ABOVE.

REQUIRED SUBMITTALS:

SUBMITTALS REQUIRED TO BE APPROVED BY GENERAL PERMIT PROGRAM REPRESENTATIVE INCLUDE: SUBMITTALS TRIGGERED BY CITY OF AUSTIN SERIES 600 SPECIFICATIONS AND RELATED SPECIAL PROVISIONS/SPECIFICATIONS, CONSTRUCTION SCHEDULE, TREE PROTECTION, P-6 AND OTHER ROOT ZONE PROTECTION/MITIGATION MEASURES, DEWATERING PLAN, WATERING SCHEDULE FOR REVEGETATION AREAS, AND ANY VEGETATIVE REPLACEMENT PROPOSALS, IF NOT ALREADY PART OF THE PERMITTED PLAN SET.

CITY OF AUSTIN - STANDARD NOTES
TREE AND NATURAL AREA PROTECTION
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY MEASURES.

2. PROTECTIVE MEASURES SHALL BE INSTALLED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.

3. PROTECTIVE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT.

4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP, COMPACTION OR CUTTING OF CRITICAL ROOT ZONE WITHIN TREE DRIP LINES.

5. TREE PROTECTION SHALL COMPLETELY SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE MEASURES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:

   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
   B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT;
   C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.

6. EXCEPTIONS TO INSTALLING PROTECTIVE FENCES AT CRITICAL ROOT ZONES MAY BE PERMITTED IN THE FOLLOWING CASES:

   A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 FEET BEYOND THE AREA DISTURBED;
   B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA;
   C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING;
   D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE GENERAL PERMIT PROGRAM OFFICE AT 974-6330 TO DISCUSS ALTERNATIVES.

SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.

WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE 5 FEET OR CLOSER TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING.

7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES, THOSE AREAS SHOULD BE COVERED WITH 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION. FILTER FABRIC UNDERLAYMENT MAY BE REQUIRED AT DIRECTION OF GENERAL PERMIT PROGRAM REPRESENTATIVE BASED ON SITE CONDITIONS AND CONSTRUCTION ACTIVITIES. MAXIMUM FOUR (4) INCHES DEPTH MAY BE LEFT IN PLACE AFTER CONSTRUCTION WITH APPROVAL FROM THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

8. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCES TO 2 FEET BEHIND THE GRADE CHANGE AREA.

9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.

10. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.

11. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

12. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.

13. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.

14. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. SEE NOTE FOUR (4) OF SUPPLEMENTAL TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.

15. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE GENERAL PERMIT PROGRAM OFFICE).

16. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

17. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

SUPPLEMENTAL TREE PROTECTION NOTES

1. ALL TREE PROTECTION MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS AS OUTLINED IN THE ENVIRONMENTAL CRITERIA MANUAL AND AS INDICATED BY STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET.CONTRACTOR SHALL INSTALL PROTECTION PRIOR TO PRE-CONSTRUCTION CONFERENCE, MAKE ADJUSTMENTS TO PROTECTION AS DIRECTED BY THE GPP REPRESENTATIVE, AND MAINTAIN PROTECTION UNTIL PROJECT IS COMPLETE.

2. TYPE AND LOCATION OF ALL TREE PROTECTION MUST BE APPROVED IN THE FIELD BY THE GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO CONSTRUCTION.

3. WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING WITH GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PERFORMING ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA. PURPOSE OF WALK-THROUGH WILL BE TWOFOLD. ONE PURPOSE WILL BE TO DETERMINE THE MINIMUM AMOUNT OF PRUNING NECESSARY TO ALLOW CONSTRUCTION WORK TO BE COMPLETED. SECOND PURPOSE WILL BE TO DETERMINE AREAS OF PROJECT IN WHICH EXHAUST DIVERTERS WILL BE REQUIRED ON CONSTRUCTION EQUIPMENT TO PREVENT SCORCHING OF EXISTING TREES.

4. ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) - 2001 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.

5. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARK TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.

6. ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.

7. ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS WILL BE ALLOWED.

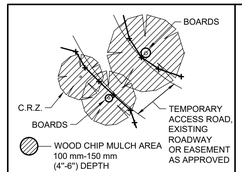
8. ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.

9. PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREEKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THIS ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT. ALL PRUNING MUST BE IN ACCORDANCE WITH COA OAK WILT PREVENTION POLICY.

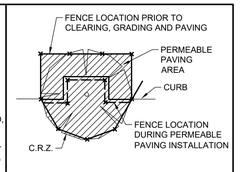
10. ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET.)

11. ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT OR EXCAVATED BY HAND, AS APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST.

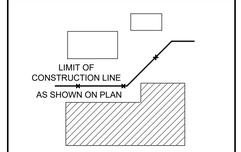
12. REFER TO ENVIRONMENTAL CRITERIA MANUAL APPENDIX P-6 FOR FURTHER REMEDIAL TREE CARE REQUIREMENTS. P-6 REMEDIAL TREE CARE WILL BE COORDINATED WITH AND APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST FOR PROJECTS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM.



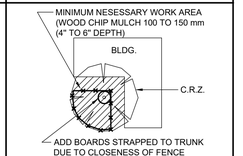
LINEAR CONSTRUCTION THROUGH TREES



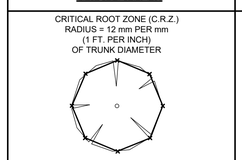
TREES IN PAVING AREA



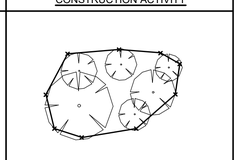
NATURAL AREAS



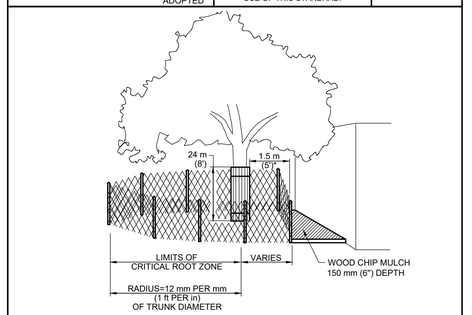
TREES NEAR CONSTRUCTION ACTIVITY



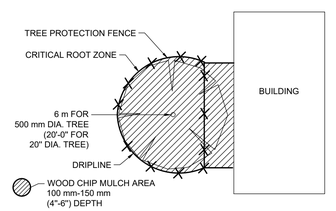
INDIVIDUAL TREE


GROUP OF TREES

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE LOCATIONS	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-1



*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE. IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-4

CITY OF AUSTIN
GREEN BUILDING

GENERAL PERMIT PROGRAM

GENERAL PERMIT OFFICE
TREE PROTECTION
AND ENVIRONMENTAL NOTES
CITY OF AUSTIN STANDARD NOTES AND DETAILS

NO.	BY	DATE	REMARKS
			REVISIONS

ESD
ENGINEERING SERVICES
D I V I S I O N

GP-2020-0085.PW

CE-002 | 15 OF 89

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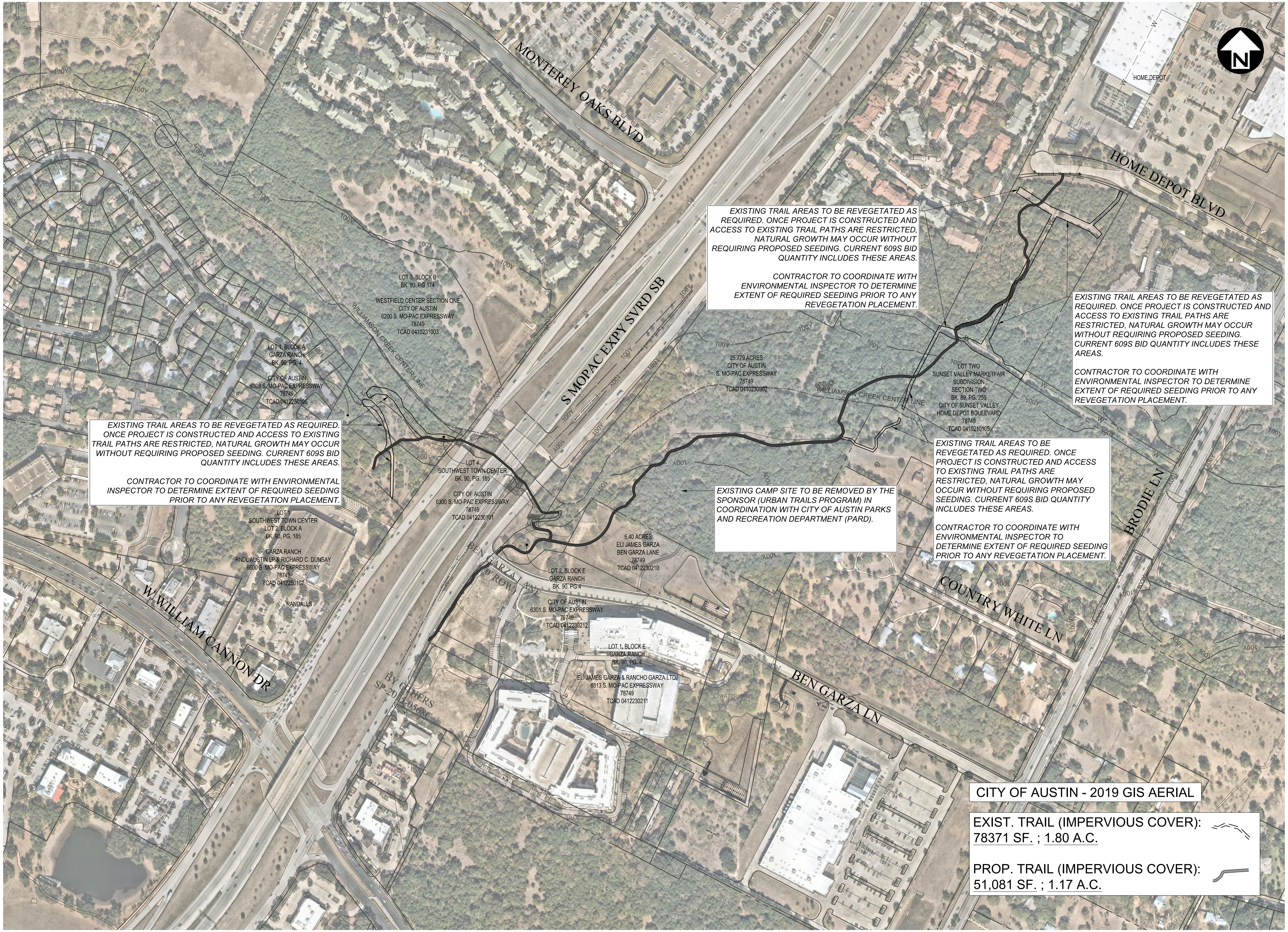

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBÉN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR LIC. # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH PHASE 2A

EXISTING PEDESTRIAN PATH REVEGETATION AREA

CITY OF AUSTIN FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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GP-2020-0085.PW

YAMAGUCHI, RIA
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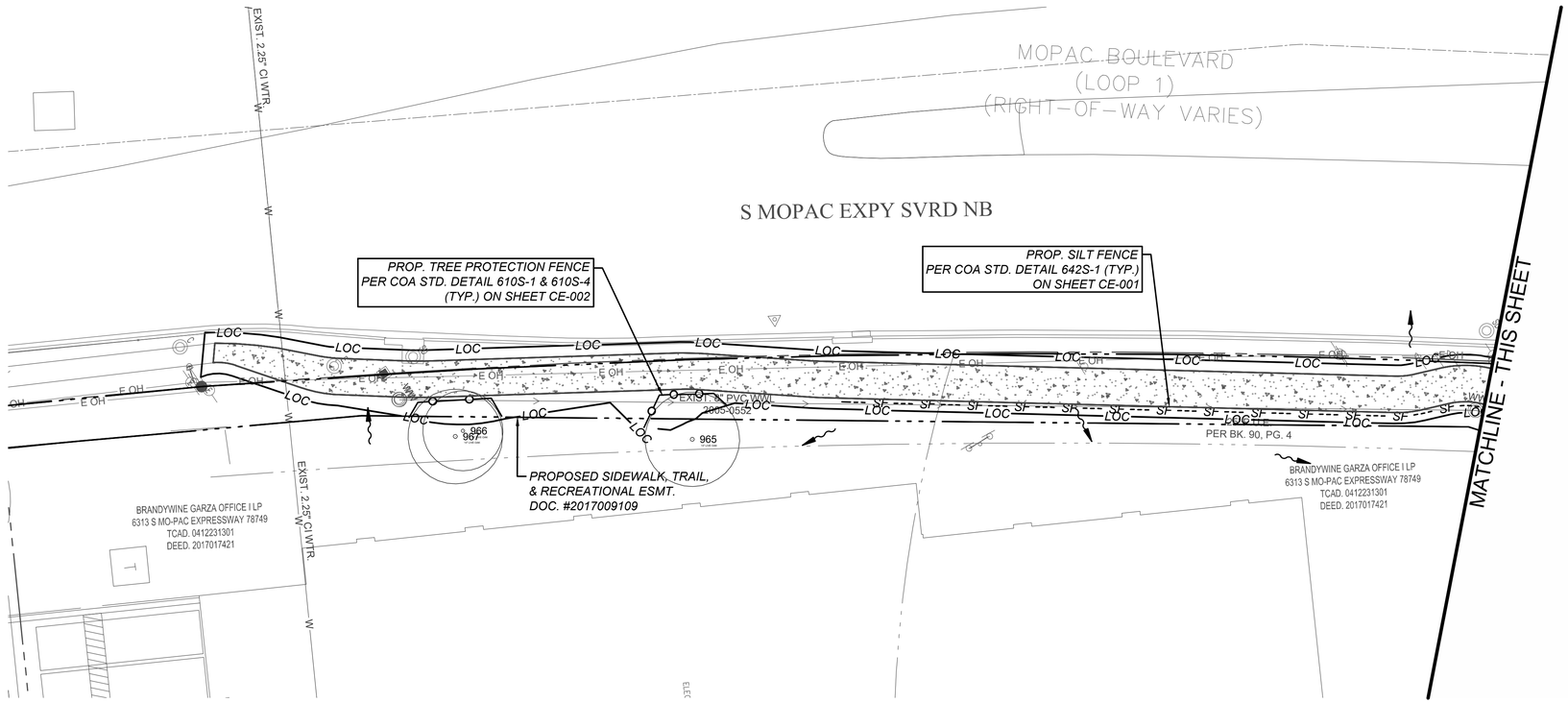


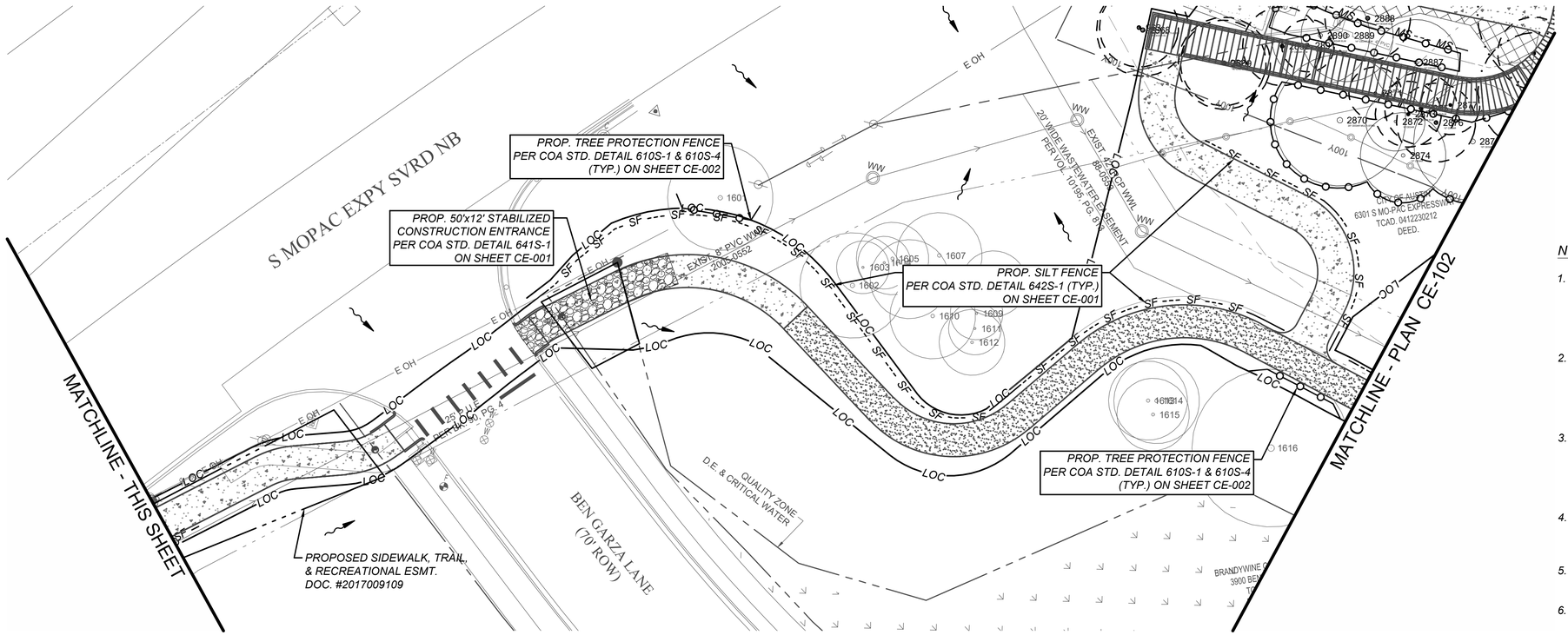
TREE LEGEND

EX. TREE TO REMAIN

EX. DEAD TREES

EX. TREE TO REMOVED

FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602



NOTE TO CONTRACTOR:

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5. *PLANIMETRIC INFORMATION IS BASED ON CITY OF AUSTIN G.I.S. INFORMATION DATED: 2013*
6. *CONTOUR INFORMATION IS BASED ON SURVEY FROM CITY OF AUSTIN - QMD*

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STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 1 OF 7

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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CE-101 | 17 OF 89

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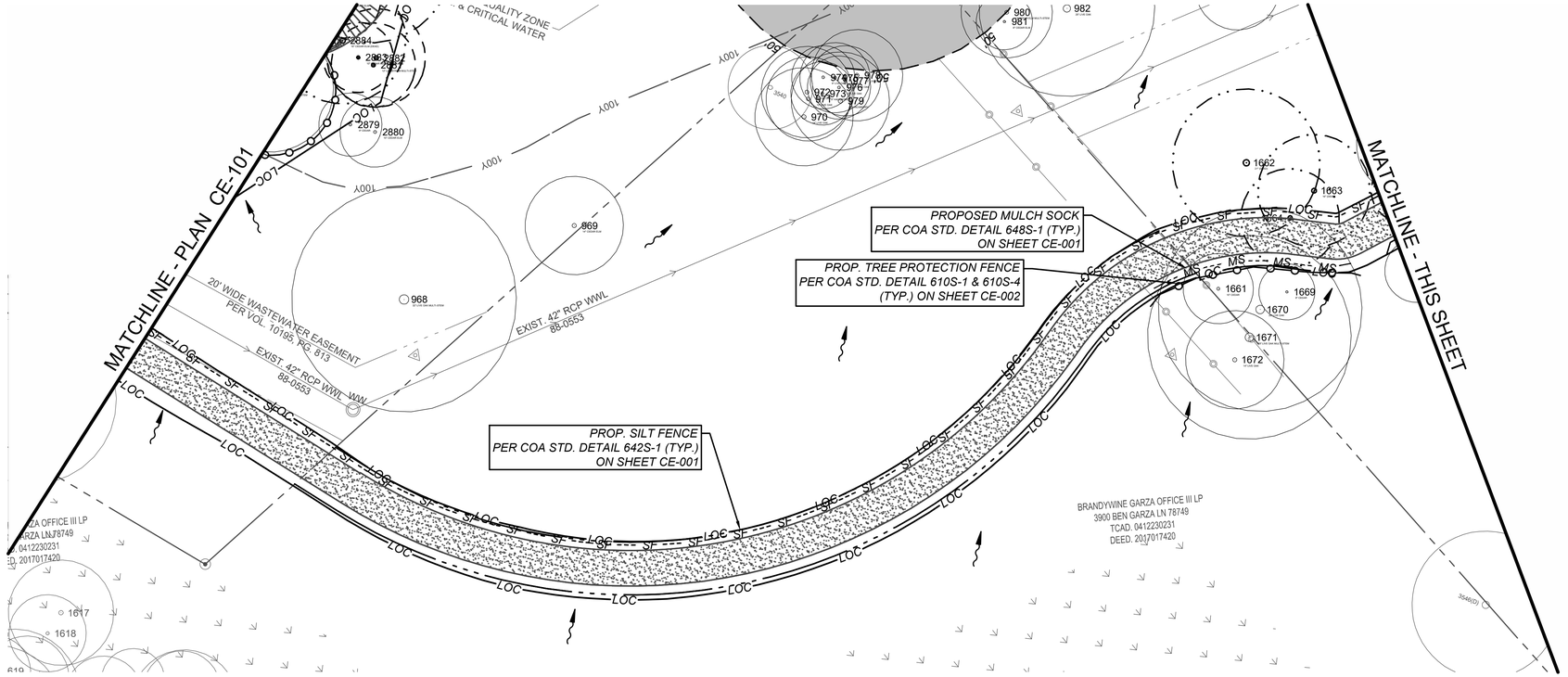
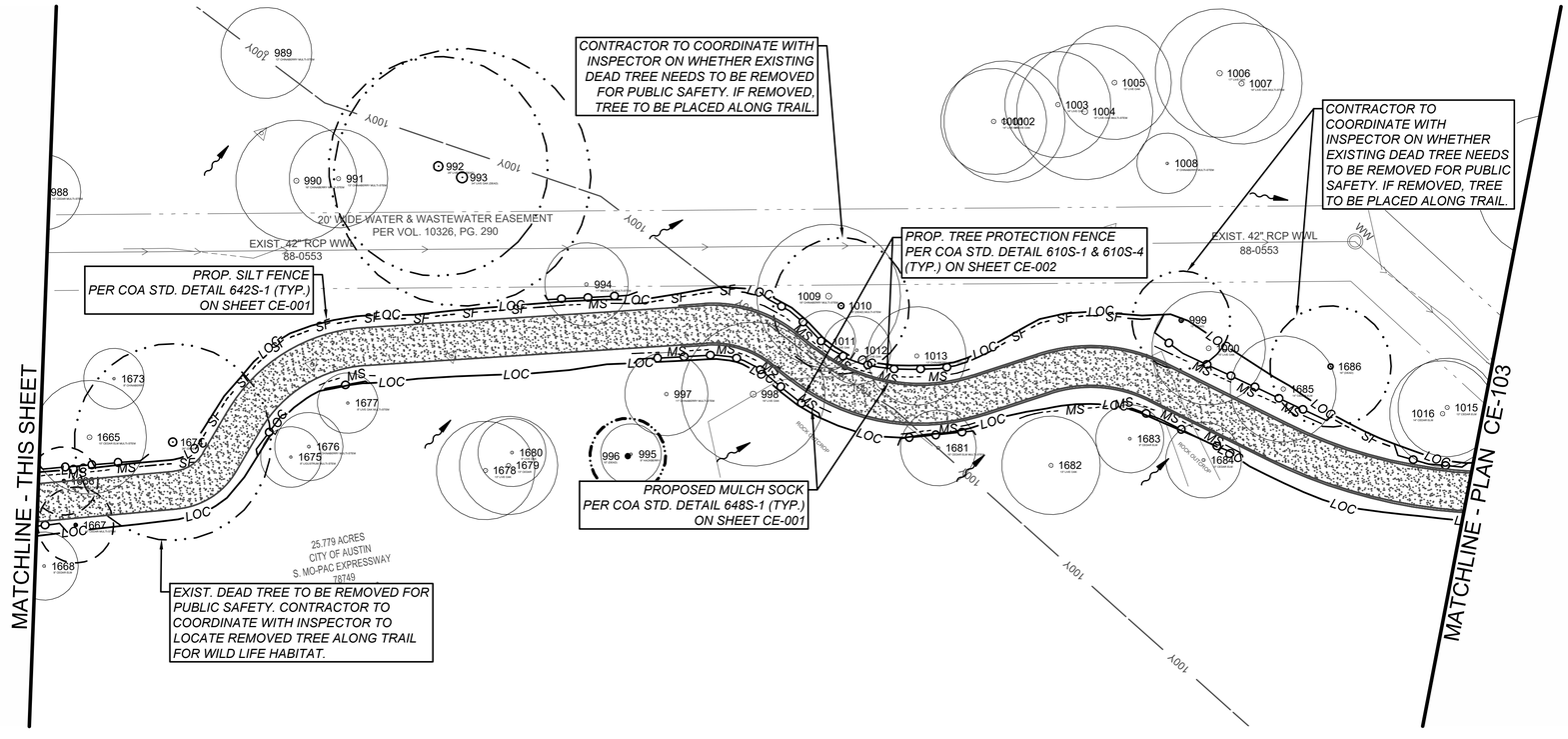


FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED



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LIC # 93745 ON 7/27/2021

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 2 OF 7

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
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CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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CE-102 | 18 OF 89

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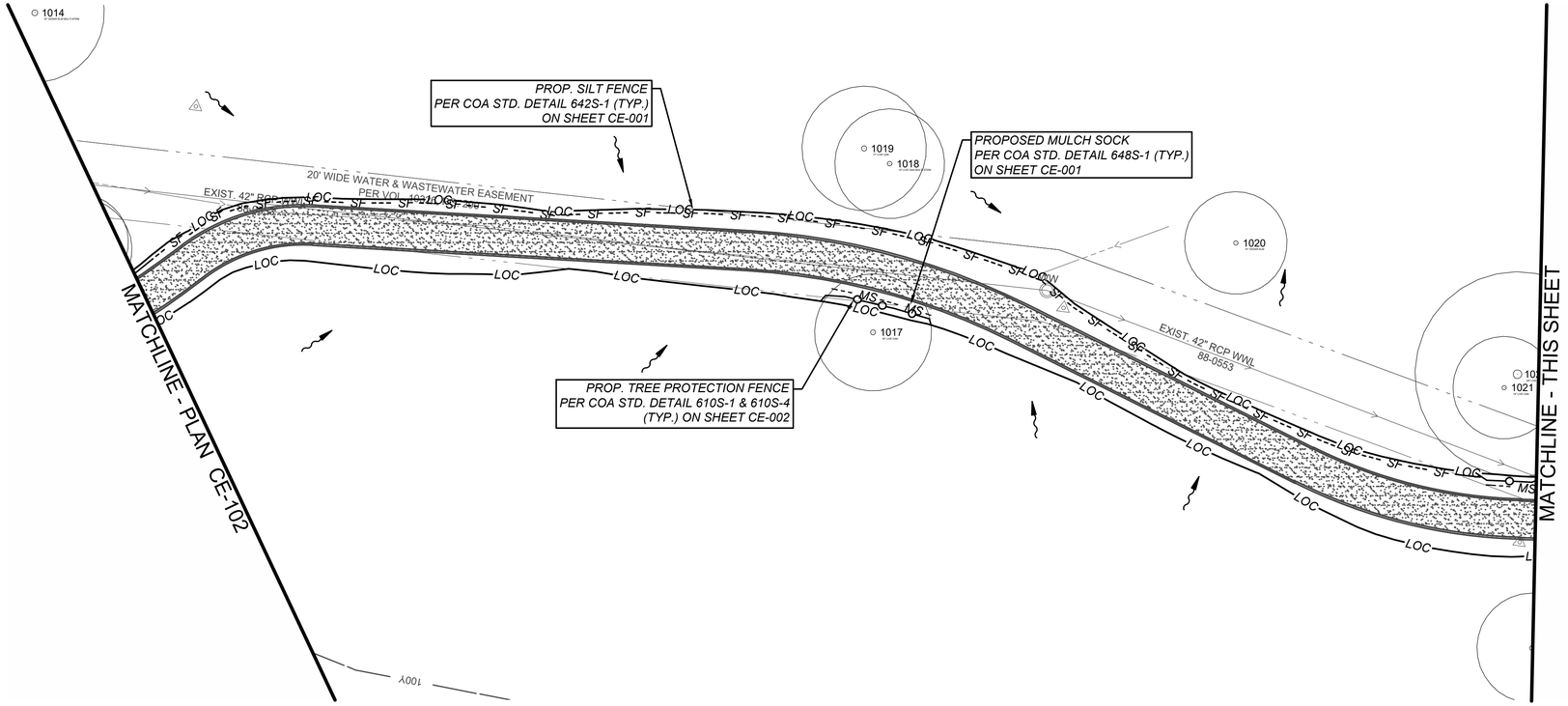

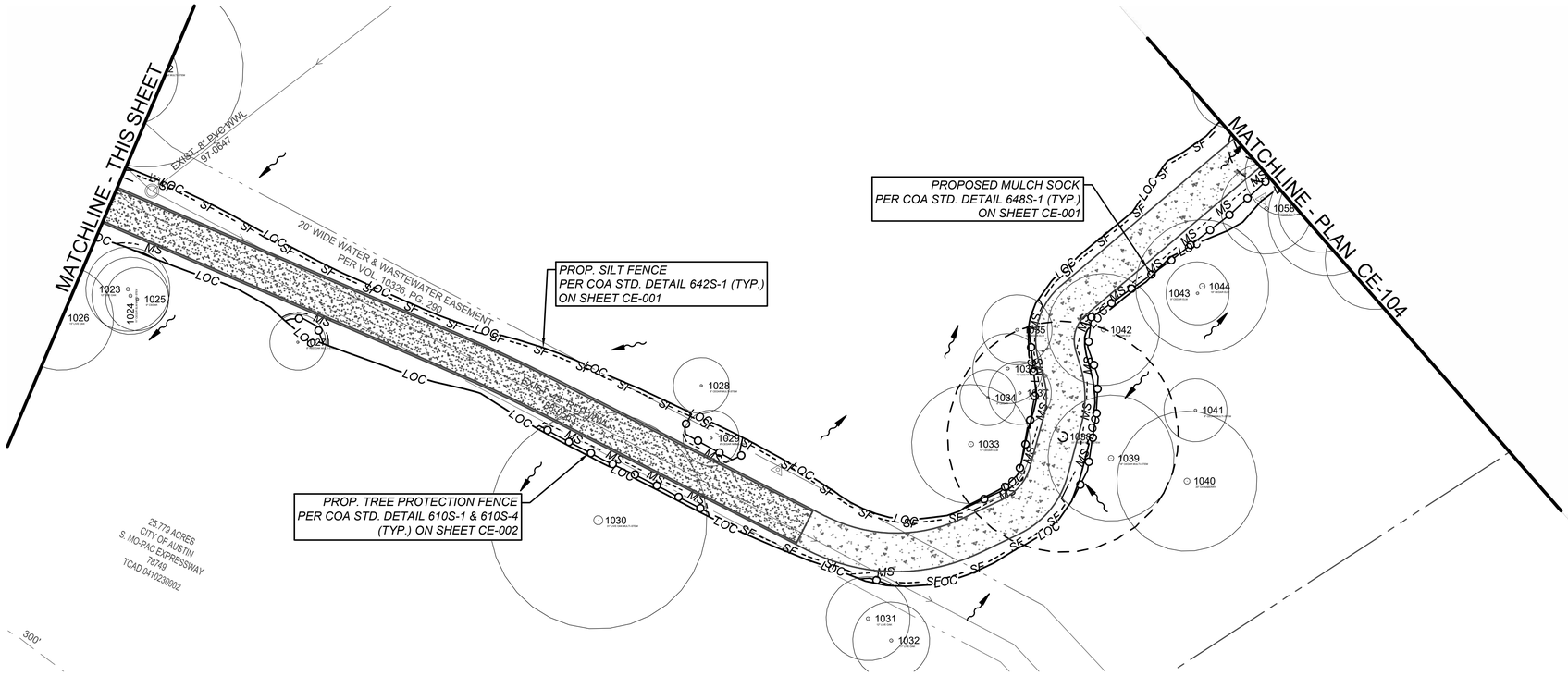

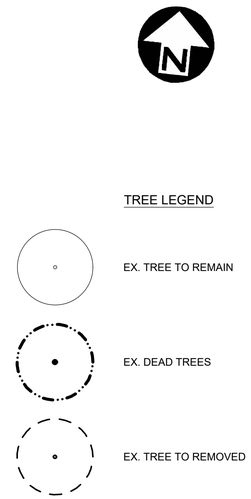

FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602

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STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
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LIC # 93745 ON

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 3 OF 7

NOTE TO CONTRACTOR:

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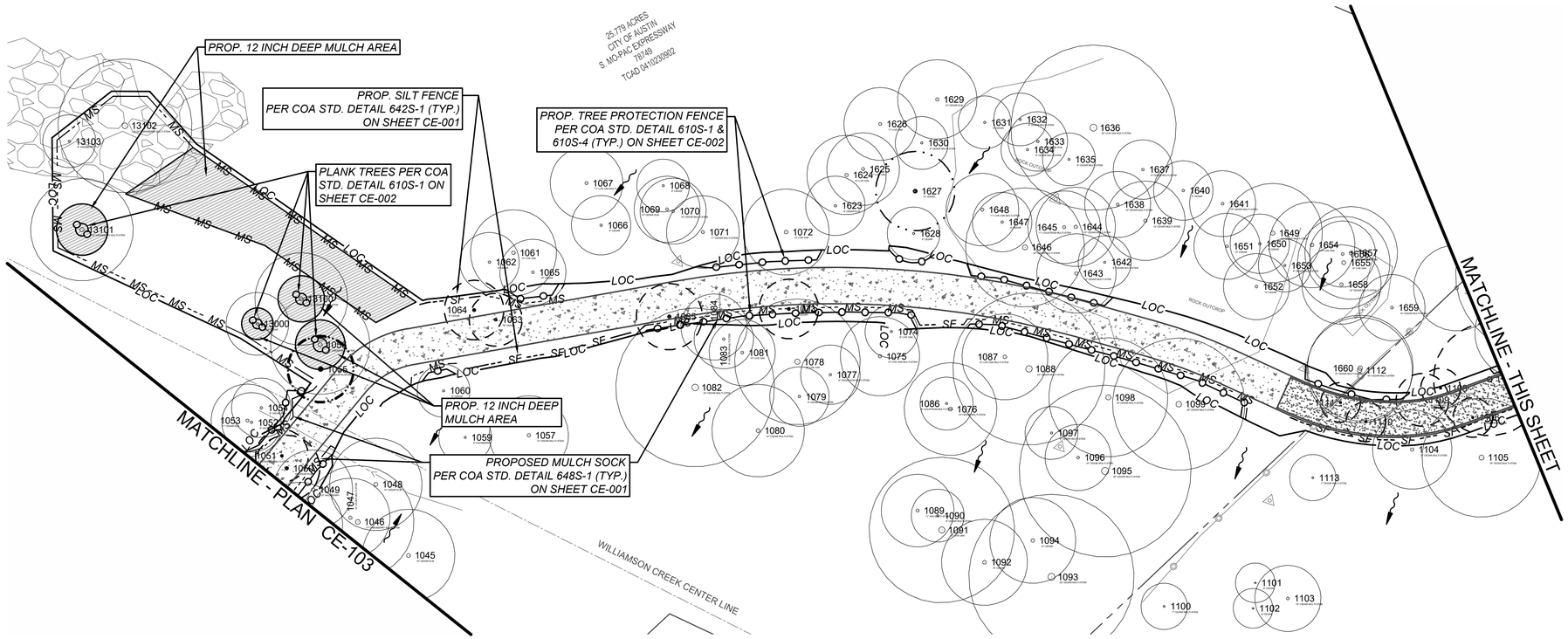
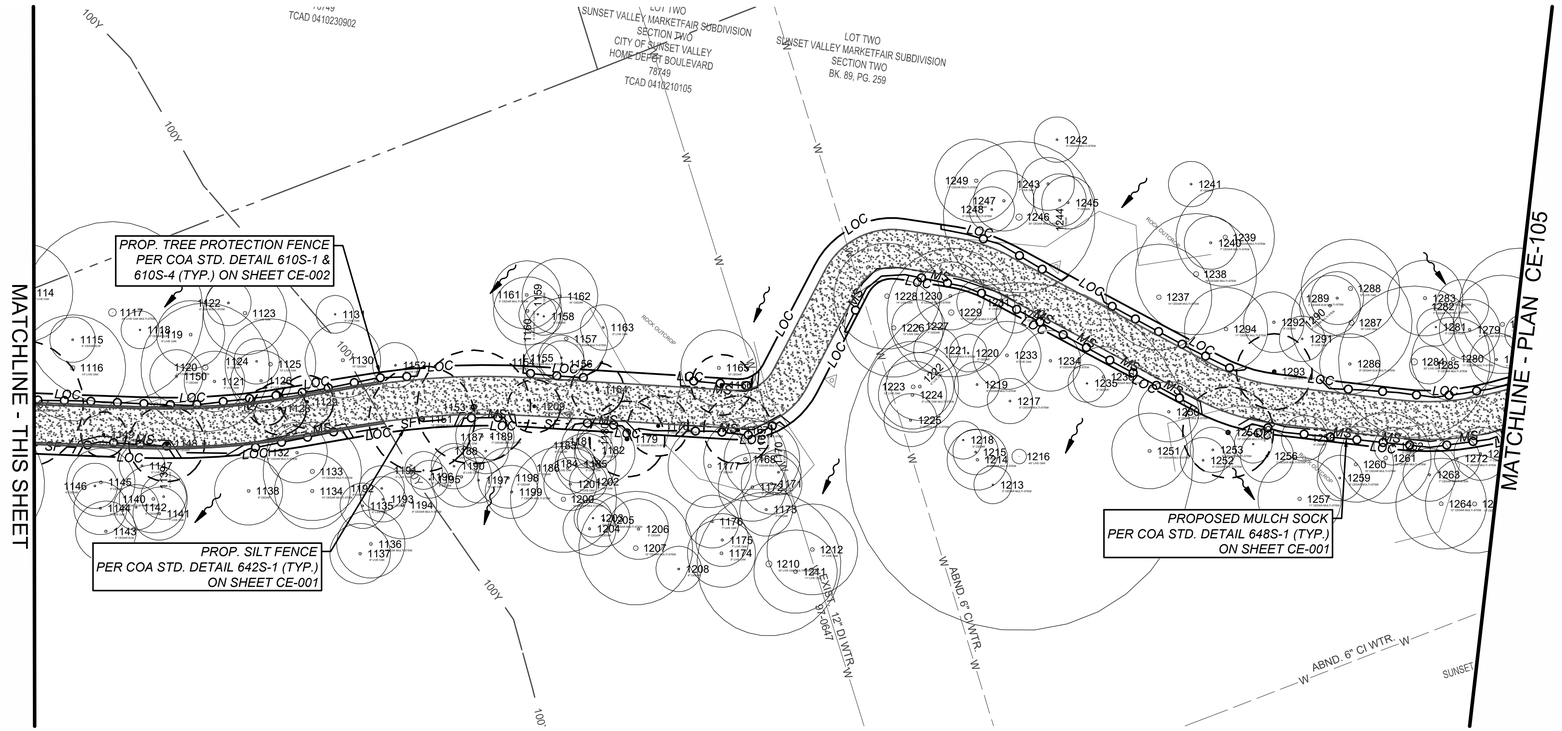
GP-2020-0085.PW

CE-103 | 19 OF 89

7/27/2021 10:00 AM C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-C-EV-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB



FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602



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5. *PLANIMETRIC INFORMATION IS BASED ON CITY OF AUSTIN G.I.S. INFORMATION DATED: 2013*
6. *CONTOUR INFORMATION IS BASED ON SURVEY FROM CITY OF AUSTIN - QMD*

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 4 OF 7

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CE-104 | 20 OF 89

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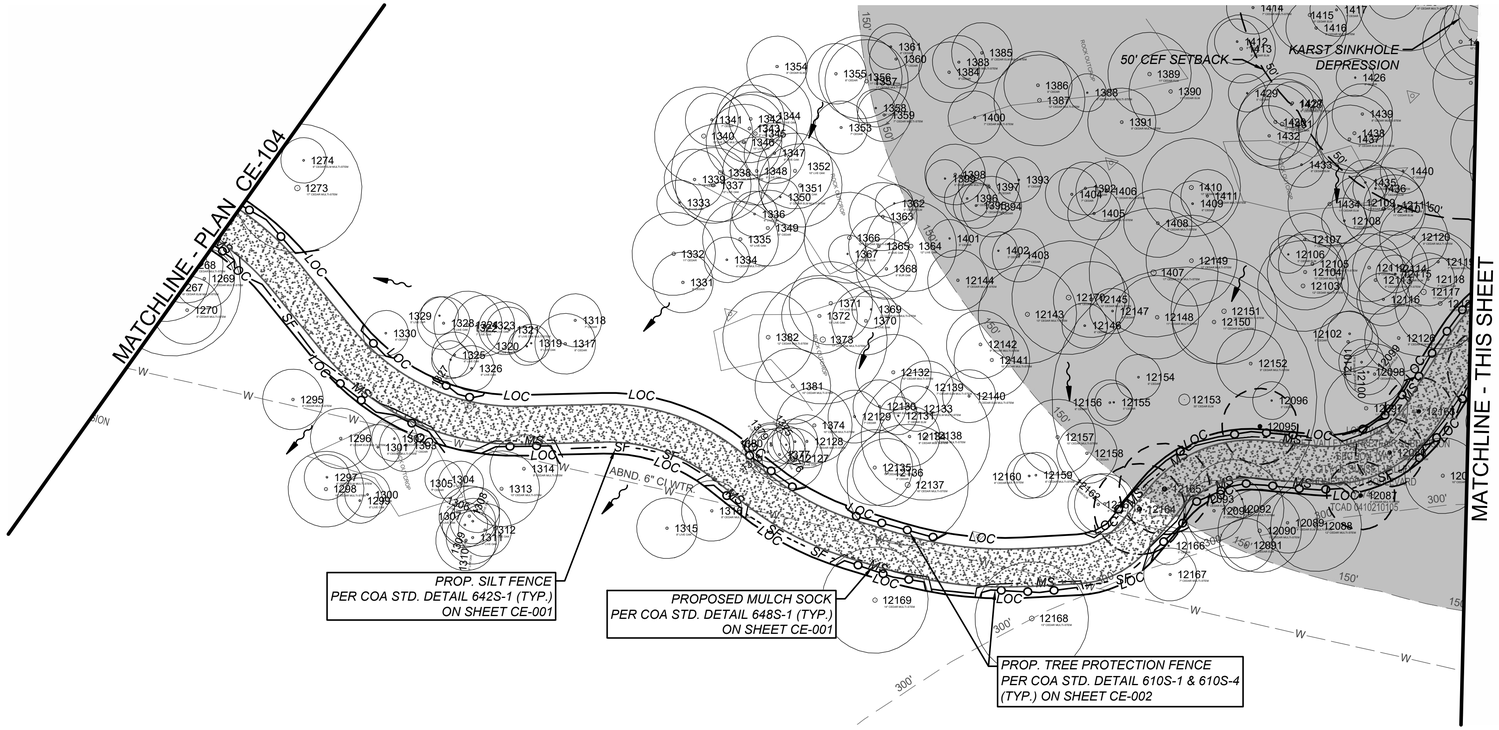


TREE LEGEND

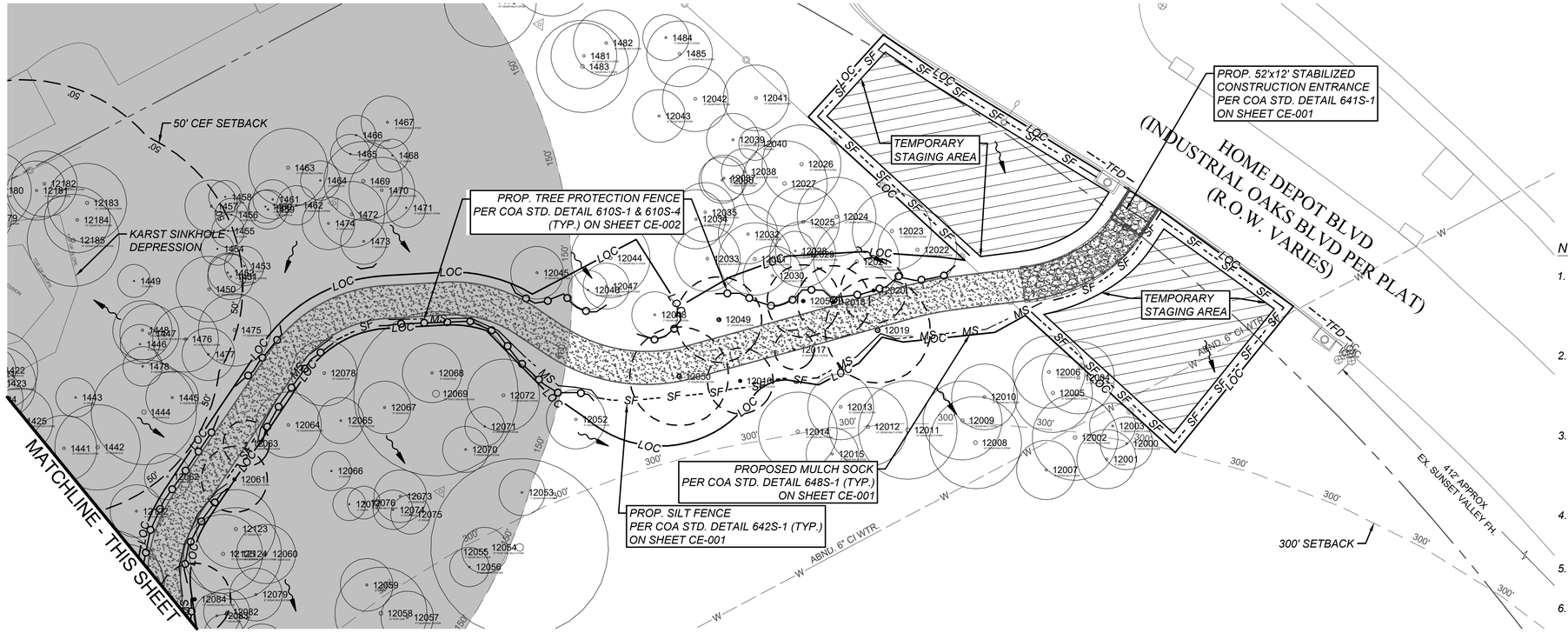
EX. TREE TO REMAIN

EX. DEAD TREES

EX. TREE TO REMOVED

EX. TREE TO REMOVED IN SUNSET VALLEY

FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602



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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 5 OF 7

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CE-105 | 21 OF 89

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD\TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-CE-EV-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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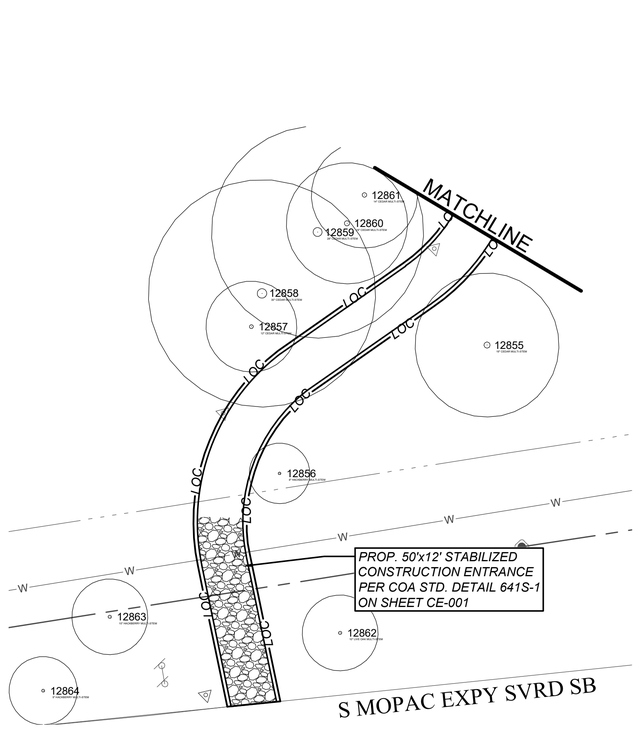
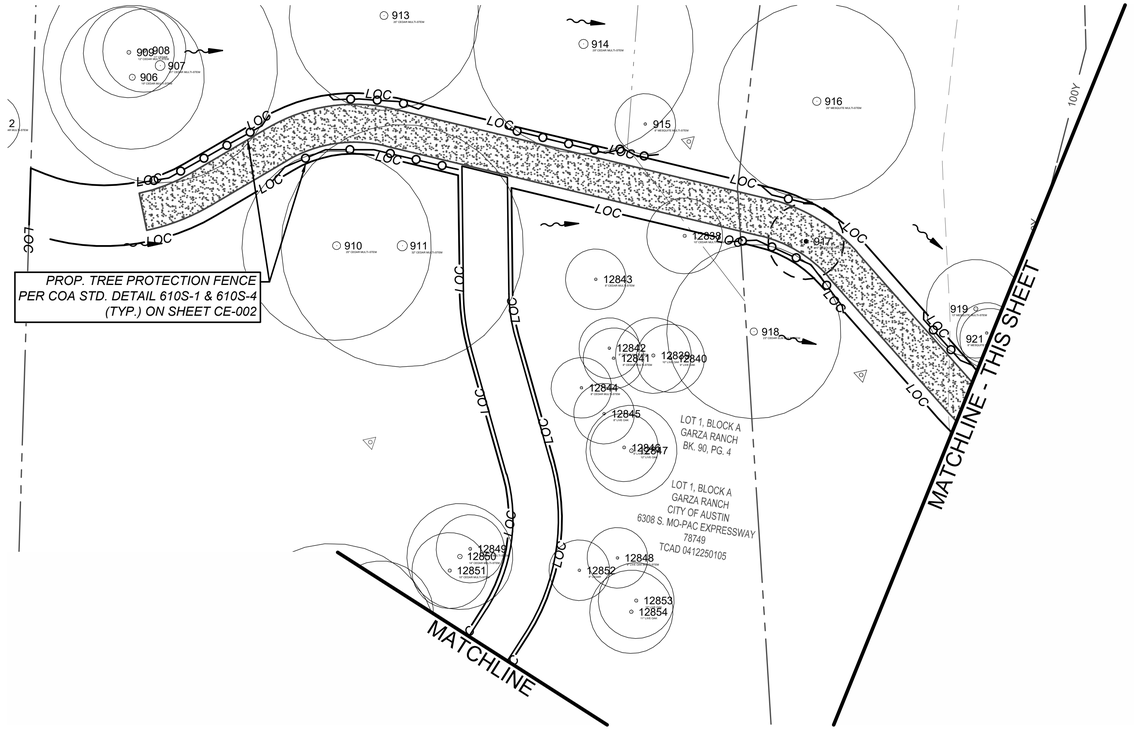
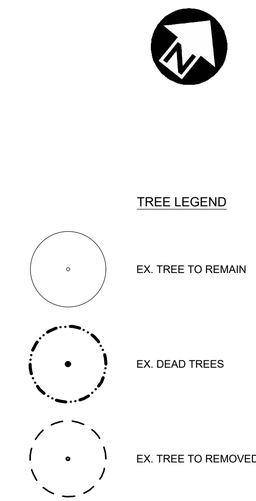
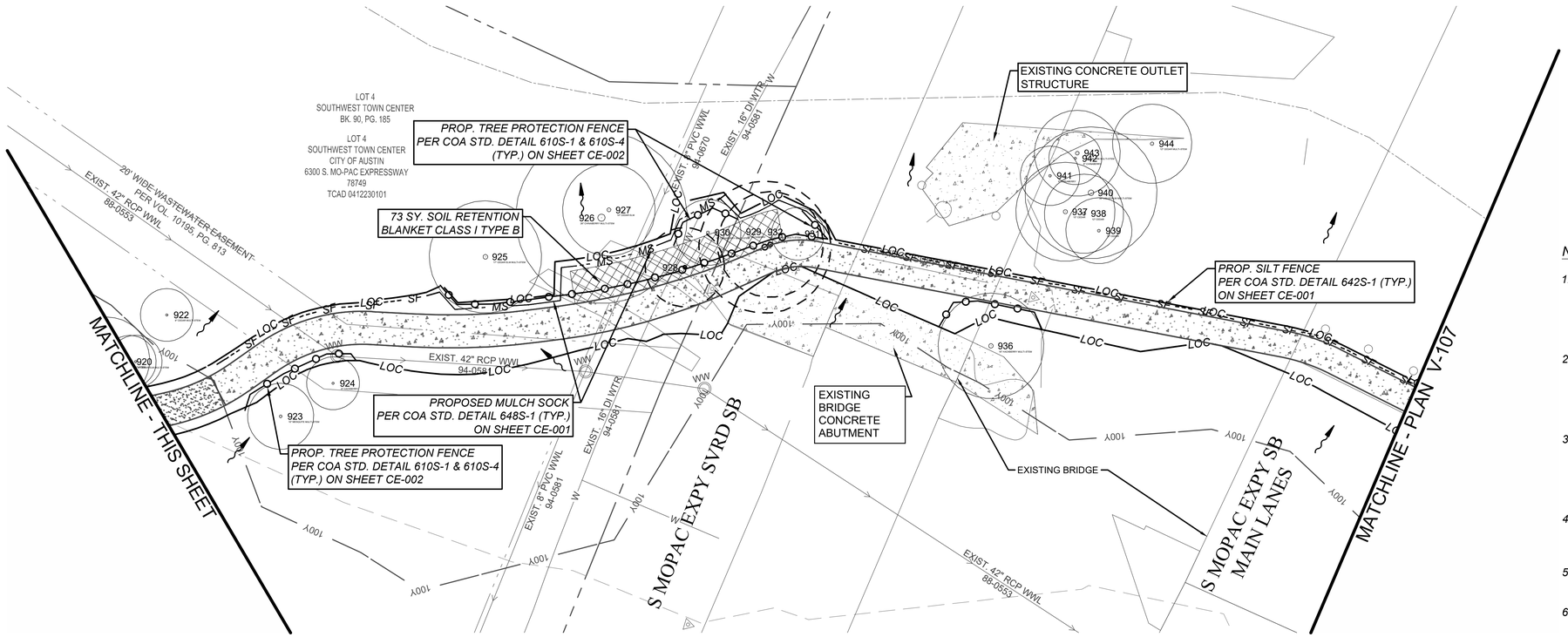






FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602



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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 6 OF 7

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CE-106 | 22 OF 89

YAMAGUCHI, RIA

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD\TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-C-EV-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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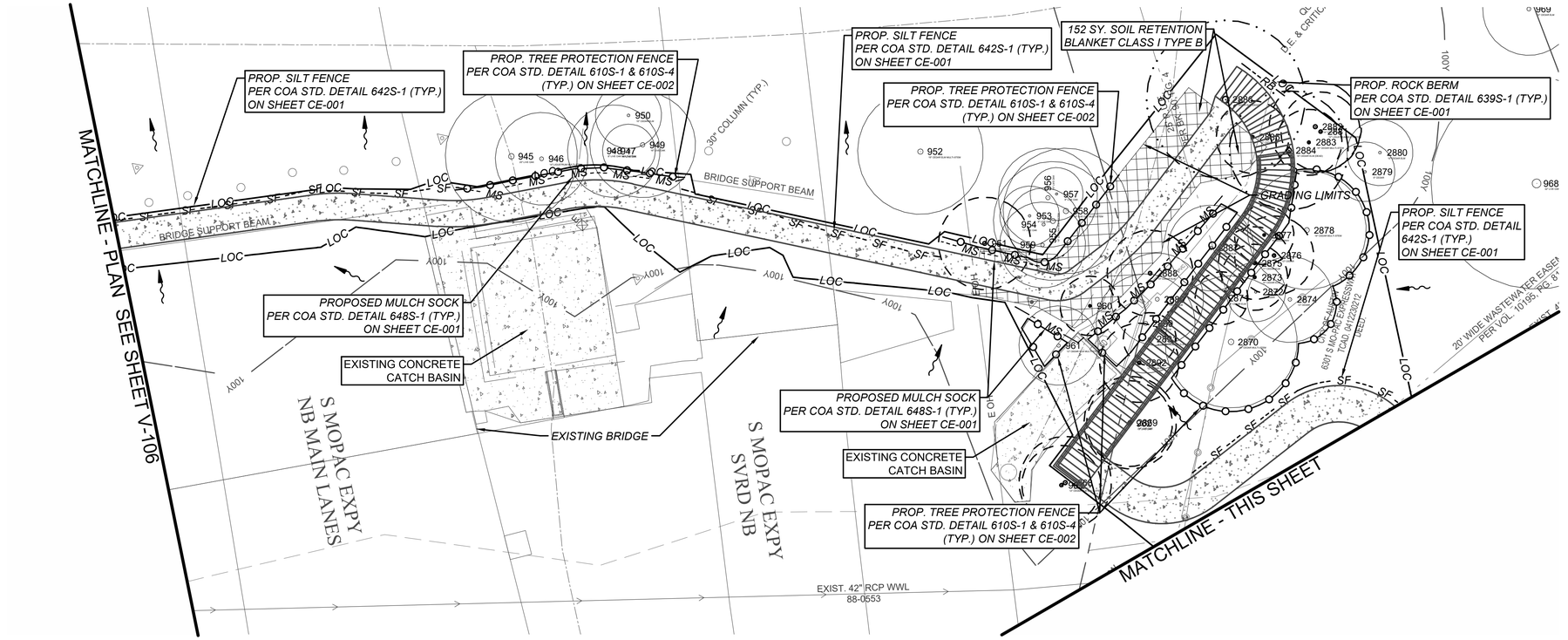


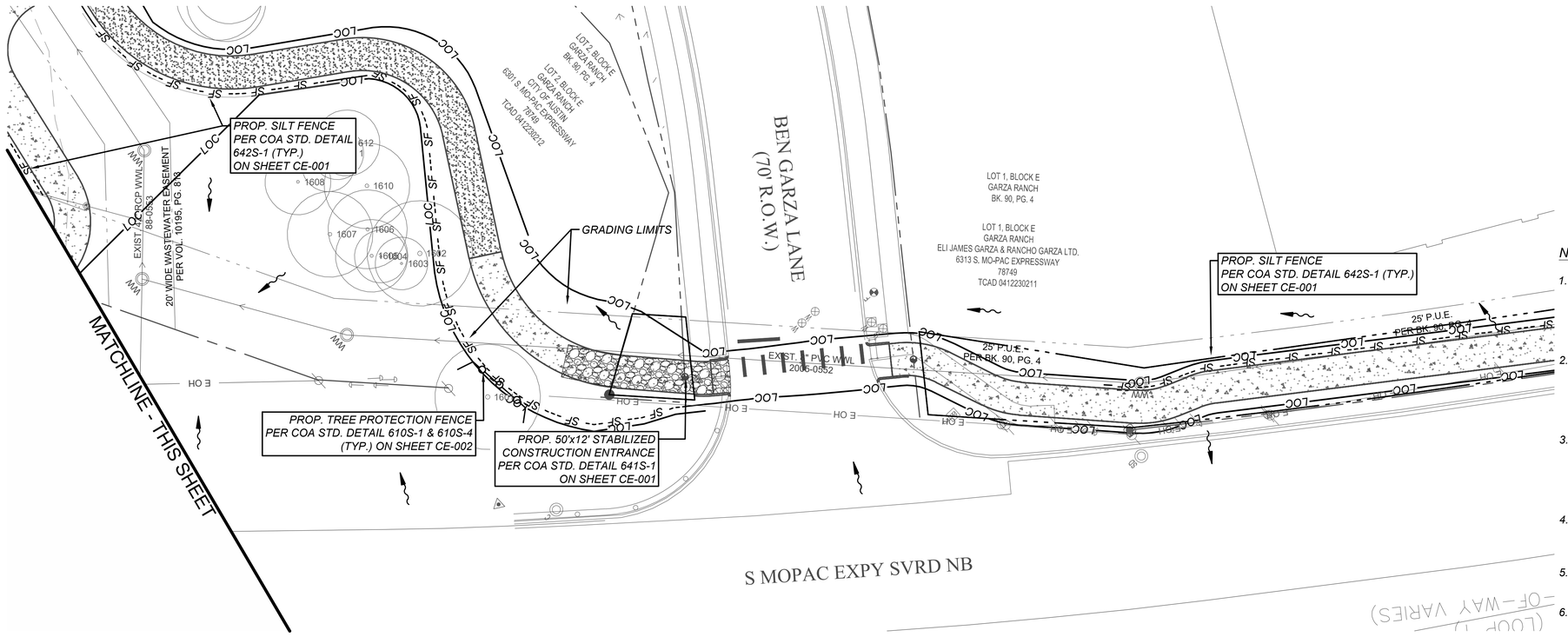
TREE LEGEND

EX. TREE TO REMAIN

EX. DEAD TREES

EX. TREE TO REMOVED

FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602



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ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
SHEET 7 OF 7

CITY OF AUSTIN
FOUNDED 1839

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CE-107 | 23 OF 89

C:\USERS\YAMAGUCHIRC\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-CE-V-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

7/29/2021 2:01 PM

TREE SURVEY	
#	DESCRIPTION
906	19" CEDAR MULTI-STEM
907	31" CEDAR MULTI-STEM
908	11" CEDAR
909	12" CEDAR MULTI-STEM
910	25" CEDAR MULTI-STEM
911	32" CEDAR MULTI-STEM
912	8" CEDAR MULTI-STEM
913	25" CEDAR MULTI-STEM
914	29" CEDAR MULTI-STEM
915	8" MESQUITE MULTI-STEM
916	26" MESQUITE MULTI-STEM
917	10" MESQUITE MULTI-STEM
918	23" CEDAR ELM MULTI-STEM
919	13" MESQUITE MULTI-STEM
920	8" CEDAR ELM MULTI-STEM
921	8" MESQUITE MULTI-STEM
922	8" CEDAR MULTI-STEM
923	10" MESQUITE MULTI-STEM
924	8" HACKBERRY
925	17" CEDAR ELM MULTI-STEM
926	26" CHINABERRY MULTI-STEM
927	14" CEDAR ELM
928	12" CHINABERRY
929	20" HACKBERRY
930	10" CHINABERRY MULTI-STEM
931	8" CHINABERRY
932	16" LIGUSTRUM MULTI-STEM
933	9" LIVE OAK
934	11" LIVE OAK
935	13" LIVE OAK
936	16" HACKBERRY MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
937	15" CEDAR
938	12" CEDAR
939	10" CEDAR
940	20" LIGUSTRUM MULTI-STEM
941	9" CHINABERRY
942	8" CHINABERRY
943	13" LIVE OAK MULTI-STEM
944	12" CEDAR MULTI-STEM
945	20" LIVE OAK
946	14" LIGUSTRUM MULTI-STEM
947	14" LIVE OAK
948	8" LIVE OAK MULTI-STEM
949	16" LIVE OAK
950	10" CEDAR ELM
951	14" CEDAR ELM
952	19" CEDAR ELM MULTI-STEM
953	9" LIVE OAK
954	11" LIVE OAK
955	18" LIVE OAK MULTI-STEM
956	15" LIVE OAK
957	8" LIVE OAK
958	19" LIVE OAK MULTI-STEM
959	13" LIVE OAK
960	9" CEDAR ELM
961	12" CEDAR ELM MULTI-STEM
962	13" LIVE OAK
963	12" CEDAR ELM MULTI-STEM
965	13" LIVE OAK
966	11" LIVE OAK
967	13" LIVE OAK
968	32" LIVE OAK MULTI-STEM
969	14" CEDAR ELM

TREE SURVEY	
#	DESCRIPTION
970	14" LIVE OAK
971	12" LIVE OAK
972	13" LIVE OAK
973	9" HACKBERRY
974	9" LIVE OAK
975	10" LIVE OAK
976	9" LIVE OAK
977	10" LIVE OAK
978	13" LIVE OAK
979	14" HACKBERRY
980	13" CEDAR ELM MULTI-STEM
981	8" CEDAR ELM
982	25" LIVE OAK
983	12" CEDAR
984	8" CEDAR
985	10" CHINABERRY MULTI-STEM
986	8" CEDAR MULTI-STEM
987	12" CEDAR MULTI-STEM
988	10" CEDAR MULTI-STEM
989	12" CHINABERRY MULTI-STEM
990	16" CHINABERRY MULTI-STEM
991	13" CHINABERRY MULTI-STEM
992	29" LIVE OAK (DEAD)
993	34" LIVE OAK (DEAD)
994	11" MESQUITE MULTI-STEM
995	8" HACKBERRY
996	10" (DEAD)
997	11" CHINABERRY MULTI-STEM
998	19" LIVE OAK
999	13" (DEAD)
1000	15" LIVE OAK
1001	14" LIVE OAK

TREE SURVEY	
#	DESCRIPTION
1002	16" LIVE OAK
1003	14" LIVE OAK
1004	18" LIVE OAK MULTI-STEM
1005	15" LIVE OAK
1006	17" LIVE OAK
1007	16" LIVE OAK MULTI-STEM
1008	8" CHINABERRY MULTI-STEM
1009	19" CHINABERRY MULTI-STEM
1010	18" (DEAD) MULTI-STEM
1011	8" LIVE OAK
1012	9" LIVE OAK
1013	13" CHINABERRY MULTI-STEM
1014	19" CEDAR ELM MULTI-STEM
1015	13" CEDAR ELM
1016	14" CEDAR ELM
1017	16" LIVE OAK
1018	15" LIVE OAK MULTI-STEM
1019	17" LIVE OAK
1020	14" CEDAR ELM
1021	14" LIVE OAK
1022	28" LIVE OAK MULTI-STEM
1023	12" LIVE OAK
1024	11" CEDAR ELM MULTI-STEM
1025	9" CEDAR
1026	15" LIVE OAK
1027	8" RED OAK MULTI-STEM
1028	8" CEDAR MULTI-STEM
1029	8" CEDAR MULTI-STEM
1030	31" LIVE OAK MULTI-STEM
1031	12" LIVE OAK
1032	11" LIVE OAK
1033	17" CEDAR ELM

TREE SURVEY	
#	DESCRIPTION
1034	8" CEDAR
1035	10" CEDAR ELM
1036	10" CEDAR ELM
1037	9" CEDAR
1038	33" CEDAR MULTI-STEM
1039	18" CEDAR MULTI-STEM
1040	20" CHINABERRY
1041	9" CEDAR MULTI-STEM
1042	16" CEDAR ELM
1043	9" CEDAR ELM
1044	19" CEDAR ELM
1045	14" CEDAR ELM
1046	17" CHINABERRY MULTI-STEM
1047	12" CEDAR MULTI-STEM
1048	14" CEDAR ELM
1049	12" HACKBERRY
1050	10" CEDAR ELM
1051	8" CEDAR ELM MULTI-STEM
1052	9" HACKBERRY
1053	11" CEDAR ELM
1054	9" CEDAR ELM
1055	10" CEDAR ELM (DEAD)
1056	15" CEDAR MULTI-STEM
1057	12" CEDAR MULTI-STEM
1058	13" CEDAR MULTI-STEM
1059	8" HACKBERRY
1060	8" CEDAR
1061	13" LIVE OAK
1062	9" CEDAR
1063	8" CEDAR
1064	9" CEDAR
1065	10" CEDAR

TREE SURVEY	
#	DESCRIPTION
1066	9" CEDAR
1067	11" LIVE OAK MULTI-STEM
1068	8" CEDAR
1069	10" CEDAR ELM
1070	10" CEDAR MULTI-STEM
1071	11" CEDAR MULTI-STEM
1072	13" LIVE OAK
1073	9" CEDAR
1074	8" LIVE OAK
1075	12" LIVE OAK MULTI-STEM
1076	14" CEDAR MULTI-STEM
1077	9" CEDAR ELM MULTI-STEM
1078	19" LIVE OAK
1079	9" CEDAR MULTI-STEM
1080	14" CEDAR MULTI-STEM
1081	10" LIVE OAK
1082	24" CEDAR MULTI-STEM
1083	9" LIGUSTRUM MULTI-STEM
1084	10" CEDAR MULTI-STEM
1085	10" CEDAR
1086	8" LIGUSTRUM MULTI-STEM
1087	13" LIVE OAK MULTI-STEM
1088	23" CEDAR MULTI-STEM
1089	11" ASH MULTI-STEM
1090	8" CEDAR MULTI-STEM
1091	22" LIVE OAK
1092	13" CEDAR
1093	25" CEDAR MULTI-STEM
1094	13" CEDAR
1095	26" CEDAR MULTI-STEM
1096	10" CEDAR MULTI-STEM
1097	8" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1098	18" CEDAR MULTI-STEM
1099	20" CEDAR MULTI-STEM
1100	7" CEDAR MULTI-STEM
1101	6" CEDAR
1102	6" CEDAR
1103	10" CEDAR MULTI-STEM
1104	12" CEDAR MULTI-STEM
1105	18" CEDAR MULTI-STEM
1106	6" CEDAR MULTI-STEM
1107	17" CEDAR MULTI-STEM
1108	6" CEDAR MULTI-STEM
1109	8" CEDAR MULTI-STEM
1110	6" CEDAR
1111	6" CEDAR
1112	16" CEDAR MULTI-STEM
1113	7" CEDAR MULTI-STEM
1114	13" LIVE OAK
1115	6" CEDAR ELM
1116	14" LIVE OAK
1117	24" LIVE OAK MULTI-STEM
1118	5" CEDAR ELM
1119	9" LIVE OAK
1120	17" LIVE OAK MULTI-STEM
1121	8" LIVE OAK
1122	6" ASH MULTI-STEM
1123	11" LIVE OAK
1124	6" CEDAR
1125	12" LIVE OAK
1126	8" LIVE OAK
1127	5" LIVE OAK
1128	7" CEDAR
1129	7" CEDAR

TREE SURVEY	
#	DESCRIPTION
1130	10" CEDAR
1131	5" LIVE OAK
1132	8" CEDAR MULTI-STEM
1133	13" CEDAR MULTI-STEM
1134	10" CEDAR MULTI-STEM
1135	6" LIVE OAK
1136	9" LIVE OAK MULTI-STEM
1137	8" LIVE OAK
1138	9" CEDAR
1139	6" LIVE OAK
1140	9" CDAR ELM MULTI-STEM
1141	7" LIVE OAK
1142	6" CEDAR
1143	8" CEDAR ELM
1144	7" LIVE OAK
1145	9" CEDAR
1146	6" CEDAR
1147	6" LIVE OAK
1148	10" CEDAR
1149	6" CEDAR MULTI-STEM
1150	7" CEDAR
1151	14" CEDAR MULTI-STEM
1152	6" LIVE OAK
1153	15" CEDAR MULTI-STEM
1154	5" LIVE OAK
1155	6" CEDAR MULTI-STEM
1156	6" LIVE OAK
1157	11" CEDAR MULTI-STEM
1158	5" CEDAR
1159	5" CEDAR
1160	9" CEDAR MULTI-STEM
1161	9" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1162	10" CEDAR
1163	6" LIVE OAK
1164	7" CEDAR
1165	10" CEDAR
1166	8" CEDAR
1167	9" LIGUSTRUM MULTI-STEM
1168	11" CEDAR MULTI-STEM
1169	10" CEDAR
1170	6" CEDAR
1171	8" CEDAR
1172	9" CEDAR MULTI-STEM
1173	7" CEDAR
1174	9" LIVE OAK
1175	7" LIVE OAK
1176	7" LIVE OAK
1177	11" CEDAR
1178	8" CEDAR MULTI-STEM
1179	10" CEDAR MULTI-STEM
1180	8" CEDAR
1181	6" CEDAR
1182	5" CEDAR
1183	6" CEDAR
1184	8" LIVE OAK
1185	5" LIVE OAK
1186	7" CEDAR
1187	6" LIVE OAK
1188	6" LIVE OAK
1189	7" CEDAR MULTI-STEM
1190	6" LIVE OAK
1191	5" LIVE OAK
1192	6" CEDAR
1193	6" CEDAR

TREE SURVEY	
#	DESCRIPTION
1194	9" CEDAR MULTI-STEM
1195	5" CEDAR
1196	8" LVE OAK
1197	6" LVE OAK
1198	8" CEDAR
1199	7" CEDAR MULTI-STEM
1200	14" CEDAR MULTI-STEM
1201	7" LIVE OAK
1202	5" LIVE OAK
1203	5" LIVE OAK
1204	7" CEDAR
1205	7" CEDAR MULTI-STEM
1206	8" CEDAR
1207	15" CEDAR MULTI-STEM
1208	6" CEDAR
1209	7" CEDAR MULTI-STEM
1210	19" LIVE OAK MULTI-STEM
1211	11" LIVE OAK
1212	12" LIVE OAK
1213	5" CEDAR MULTI-STEM
1214	8" CEDAR MULTI-STEM
1215	6" CEDAR
1216	46" LIVE OAK
1217	6" CEDAR MULTI-STEM
1218	5" CEDAR
1219	6" CEDAR MULTI-STEM
1220	5" CEDAR
1221	6" CEDAR MULTI-STEM
1222	9" LIVE OAK
1223	12" LIVE OAK
1224	9" LIVE OAK MULTI-STEM
1225	7" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1226	13" LIVE OAK
1227	7" CEDAR
1228	14" LIVE OAK
1229	17" CEDAR ELM MULTI-STEM
1230	9" CEDAR MULTI-STEM
1231	6" CEDAR
1232	5" CEDAR
1233	9" LIVE OAK
1234	8" CEDAR MULTI-STEM
1235	5" CEDAR
1236	8" CEDAR MULTI-STEM
1237	14" CEDAR MULTI-STEM
1238	16" CEDAR MULTI-STEM
1239	13" CEDAR MULTI-STEM
1240	7" CEDAR MULTI-STEM
1241	6" CEDAR
1242	6" CEDAR MULTI-STEM
1243	7" LIVE OAK
1244	7" CEDAR
1245	7" CEDAR
1246	20" CEDAR MULTI-STEM
1247	8" CEDAR
1248	6" CEDAR MULTI-STEM
1249	11" CEDAR MULTI-STEM
1250	8" CEDAR MULTI-STEM
1251	10" CEDAR MULTI-STEM
1252	6" CEDAR MULTI-STEM
1253	6" CEDAR MULTI-STEM
1254	12" CEDAR MULTI-STEM
1255	5" CEDAR
1256	7" CEDAR MULTI-STEM
1257	11" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1258	6" CEDAR
1259	6" CEDAR MULTI-STEM
1260	10" CEDAR MULTI-STEM
1261	12" CEDAR MULTI-STEM
1262	5" CEDAR
1263	7" CEDAR MULTI-STEM
1264	12" CEDAR MULTI-STEM
1265	13" CEDAR MULTI-STEM
1266	12" CEDAR MULTI-STEM
1267	18" CEDAR ELM MULTI-STEM
1268	10" CEDAR MULTI-STEM
1269	8" CEDAR MULTI-STEM
1270	9" CEDAR MULTI-STEM
1271	7" CEDAR MULTI-STEM
1272	6" CEDAR MULTI-STEM
1273	17" CEDAR MULTI-STEM
1274	6" CEDAR ELM MULTI-STEM
1275	16" LIVE OAK
1276	5" LIVE OAK
1277	13" LIVE OAK
1278	7" LIVE OAK MULTI-STEM
1279	8" LIVE OAK MULTI-STEM
1280	11" CEDAR MULTI-STEM
1281	5" CEDAR ELM
1282	7" CEDAR ELM MULTI-STEM
1283	10" CEDAR ELM MULTI-STEM
1284	20" LIVE OAK MULTI-STEM
1285	5" CEDAR MULTI-STEM
1286	8" CEDAR ELM MULTI-STEM
1287	16" LIVE OAK
1288	13" LIVE OAK
1289	7" CEDAR ELM MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1290	8" CEDAR MULTI-STEM
1291	6" LIVE OAK
1292	8" CEDAR
1293	10" CEDAR MULTI-STEM
1294	11" CEDAR MULTI-STEM
1295	8" CEDAR MULTI-STEM
1296	8" CEDAR ELM MULTI-STEM
1297	6" CEDAR ELM MULTI-STEM
1298	10" CEDAR MULTI-STEM
1299	6" LIVE OAK
1300	6" LIVE OAK
1301	6" CEDAR MULTI-STEM
1302	6" CEDAR ELM
1303	7" CEDAR
1304	5" LIVE OAK
1305	6" CEDAR
1306	6" LIVE OAK
1307	8" LIVE OAK
1308	6" LIVE OAK
1309	6" LIVE OAK
1310	8" LIVE OAK
1311	7" LIVE OAK
1312	7" LIVE OAK
1313	10" CEDAR MULTI-STEM
1314	9" CEDAR MULTI-STEM
1315	8" LIVE OAK
1316	8" CEDAR MULTI-STEM
1317	8" CEDAR
1318	7" CEDAR
1319	5" LIVE OAK
1320	5" LIVE OAK
1321	6" LIVE OAK MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1322	7" LIVE OAK
1323	8" LIVE OAK
1324	9" LIVE OAK
1325	6" LIVE OAK
1326	6" LIVE OAK
1327	5" LIVE OAK
1328	7" LIVE OAK
1329	5" LIVE OAK
1330	6" CEDAR
1331	8" CEDAR
1332	11" CEDAR
1333	6" LIVE OAK
1334	6" CEDAR MULTI-STEM
1335	10" LIVE OAK
1336	6" LIVE OAK
1337	10" LIVE OAK
1338	13" LIVE OAK MULTI-STEM
1339	8" CEDAR
1340	13" LVE OAK MULTI-STEM
1341	7" CEDAR
1342	9" LIVE OAK
1343	9" LIVE OAK
1344	11" LIVE OAK
1345	11" LIVE OAK
1346	10" LIVE OAK
1347	8" LIVE OAK
1348	9" LIVE OAK
1349	10" CEDAR
1350	5" CEDAR ELM MULTI-STEM
1351	11" LVE OAK
1352	10" LVE OAK
1353	7" CEDAR

TREE SURVEY	
#	DESCRIPTION
1354	8" CEDAR ELM
1355	8" CEDAR
1356	11" CEDAR MULTI-STEM
1357	11" CEDAR MULTI-STEM
1358	5" CEDAR
1359	7" CEDAR MULTI-STEM
1360	7" CEDAR
1361	6" CEDAR
1362	5" CEDAR ELM
1363	9" LIVE OAK
1364	12" LIVE OAK
1365	8" LIVE OAK
1366	12" LIVE OAK MULTI-STEM
1367	5" CEDAR ELM
1368	8" BUR OAK
1369	5" CEDAR ELM MULTI-STEM
1370	9" LIVE OAK
1371	11" LIVE OAK
1372	10" LIVE OAK
1373	17" LIVE OAK MULTI-STEM
1374	10" CEDAR MULTI-STEM
1375	6" LIVE OAK
1376	5" LIVE OAK
1377	7" LIVE OAK
1378	6" LIVE OAK
1379	6" LIVE OAK
1380	5" LIVE OAK
1381	10" CEDAR MULTI-STEM
1382	12" CEDAR MULTI-STEM
1383	7" CEDAR MULTI-STEM
1384	8" CEDAR
1385	8" CEDAR ELM MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1386	9" CEDAR
1387	12" CEDAR MULTI-STEM
1388	5" CEDAR ELM MULTI-STEM
1389	11" CEDAR ELM
1390	11" CEDAR ELM
1391	9" CEDAR MULTI-STEM
1392	7" CEDAR
1393	6" CEDAR
1394	8" CEDAR
1395	6" CEDAR ELM
1396	6" CEDAR
1397	8" CEDAR
1398	8" CEDAR
1399	5" CEDAR ELM MULTI-STEM
1400	7" CEDAR MULTI-STEM
1401	5" CEDAR
1402	5" CEDAR
1403	7" CEDAR
1404	7" CEDAR
1405	7" CEDAR MULTI-STEM
1406	8" CEDAR MULTI-STEM
1407	17" CEDAR ELM MULTI-STEM
1408	9" CEDAR MULTI-STEM
1409	6" CEDAR
1410	13" CEDAR MULTI-STEM
1411	7" CEDAR MULTI-STEM
1412	6" CEDAR
1413	9" CEDAR ELM
1414	7" CEDAR MULTI-STEM
1415	10" CEDAR ELM
1416	8" CEDAR MULTI-STEM
1417	7" CEDAR

TREE SURVEY	
#	DESCRIPTION
1418	7" CEDAR MULTI-STEM
1419	7" CEDAR MULTI-STEM
1420	13" CEDAR MULTI-STEM
1421	7" CEDAR ELM
1422	12" CEDAR ELM
1423	11" CEDAR MULTI-STEM
1424	10" CEDAR ELM
1425	10" CEDAR MULTI-STEM
1426	5" CEDAR
1427	8" CEDAR ELM
1428	6" CEDAR MULTI-STEM
1429	5" CEDAR
1430	10" CEDAR ELM
1431	12" POST OAK
1432	8" POST OAK
1433	6" CEDAR ELM
1434	11" CEDAR ELM
1435	6" CEDAR ELM MULTI-STEM
1436	6" CEDAR ELM
1437	9" CEDAR ELM MULTI-STEM
1438	10" CEDAR
1439	8" CEDAR MULTI-STEM
1440	6" CEDAR
1441	10" CEDAR MULTI-STEM
1442	13" CEDAR ELM
1443	6" CEDAR
1444	16" CEDAR ELM
1445	8" CEDAR MULTI-STEM
1446	6" CEDAR ELM
1447	9" CEDAR ELM MULTI-STEM
1448	9" CEDAR ELM
1449	5" CEDAR

TREE SURVEY	
#	DESCRIPTION
1450	10" CEDAR MULTI-STEM
1451	7" CEDAR ELM
1452	6" CEDAR ELM MULTI-STEM
1453	6" CEDAR
1454	5" CEDAR
1455	5" CEDAR
1456	5" CEDAR ELM
1457	8" CEDAR MULTI-STEM
1458	5" CEDAR
1459	6" CEDAR ELM
1460	5" CEDAR ELM
1461	6" CEDAR ELM MULTI-STEM
1462	6" CEDAR MULTI-STEM
1463	12" CEDAR MULTI-STEM
1464	6" CEDAR ELM
1465	6" CEDAR
1466	6" CEDAR MULTI-STEM
1467	8" CEDAR MULTI-STEM
1468	5" CEDAR
1469	12" CEDAR ELM
1470	10" CEDAR MULTI-STEM
1471	6" CEDAR MULTI-STEM
1472	10" CEDAR
1473	7" CEDAR ELM
1474	8" CEDAR ELM
1475	11" CEDAR MULTI-STEM
1476	10" CEDAR MULTI-STEM
1477	8" CEDAR
1478	6" CEDAR MULTI-STEM
1479	14" CEDAR MULTI-STEM
1480	13" CEDAR MULTI-STEM
1481	10" CEDAR MULTI-STEM

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
DC # 93745

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
TREE LIST - SHEET 1 OF 2

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

CE-601 | 24 OF 89

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7/27/2021 10:03 AM

TREE SURVEY	
#	DESCRIPTION
1482	10" CEDAR MULTI-STEM
1483	14" CEDAR MULTI-STEM
1484	7" CEDAR MULTI-STEM
1485	10" CEDAR MULTI-STEM
1623	9" CEDAR ELM
1624	12" LIVE OAK
1625	11" LIVE OAK
1626	11" LIVE OAK
1627	12" (DEAD)
1628	8" CEDAR
1629	12" CEDAR ELM
1630	8" CEDAR MULTI-STEM
1631	8" CEDAR
1632	8" CEDAR MULTI-STEM
1633	9" CEDAR ELM
1634	8" CEDAR MULTI-STEM
1635	8" CEDAR MULTI-STEM
1636	25" LIVE OAK MULTI-STEM
1637	9" CEDAR MULTI-STEM
1638	10" CEDAR MULTI-STEM
1639	12" CEDAR MULTI-STEM
1640	9" CEDAR
1641	10" CEDAR MULTI-STEM
1642	8" CEDAR MULTI-STEM
1643	12" CEDAR MULTI-STEM
1644	12" CEDAR MULTI-STEM
1645	11" LIGUSTRUM MULTI-STEM
1646	18" CEDAR MULTI-STEM
1647	9" CEDAR
1648	11" LIVE OAK MULTI-STEM
1649	15" CEDAR MULTI-STEM
1650	9" CEDAR

TREE SURVEY	
#	DESCRIPTION
1651	10" CEDAR
1652	10" CEDAR
1653	8" CEDAR MULTI-STEM
1654	13" LIVE OAK
1655	14" LIVE OAK
1656	10" CEDAR MULTI-STEM
1657	14" LIVE OAK
1658	12" CEDAR MULTI-STEM
1659	10" CEDAR MULTI-STEM
1660	16" CEDAR MULTI-STEM
1661	10" CEDAR
1662	21" (DEAD)
1663	16" (DEAD)
1664	14" (DEAD)
1665	15" CEDAR ELM MULTI-STEM
1666	9" CEDAR MULTI-STEM
1667	10" CEDAR MULTI-STEM
1668	9" CEDAR ELM
1669	8" CEDAR
1670	29" LIVE OAK
1671	29" LIVE OAK MULTI-STEM
1672	14" LIVE OAK
1673	8" CHINABERRY
1674	26" (DEAD)
1675	8" LIGUSTRUM MULTI-STEM
1676	9" CHINABERRY MULTI-STEM
1677	8" LIVE OAK MULTI-STEM
1678	13" LIVE OAK
1679	13" CEDAR
1680	9" LIVE OAK
1681	10" CEDAR ELM MULTI-STEM
1682	13" LIVE OAK

TREE SURVEY	
#	DESCRIPTION
1683	9" CEDAR ELM
1684	10" CEDAR ELM
1685	14" CEDAR ELM
1686	16" (DEAD)
2868	14" CEDAR EL
2869	14" LIVE OAK
2870	20" CEDAR MULTI-STEM
2871	8" CEDAR ELM
2872	9" CEDAR
2873	10" CEDAR ELM
2874	13" CEDAR
2875	11" CEDAR ELM
2876	12" CEDAR
2877	9" HACKBERRY
2878	18" CEDAR MULTI-STEM
2879	9" CEDAR
2880	10" CEDAR ELM
2881	12" LIGUSTRUM MULTI-STEM
2882	14" CEDAR ELM
2883	10" CEDAR MULTI-STEM
2884	18" CEDAR ELM (DEAD)
2885	11" CEDAR ELM
2886	24" CEDAR ELM (DEAD)
2887	13" CEDAR ELM
2888	13" CEDAR ELM
2889	14" CEDAR ELM
2890	15" CEDAR ELM
2891	8" LIGUSTRUM MULTI-STEM
2892	12" CEDAR ELM
12000	8" CEDAR MULTI-STEM
12001	9" CEDAR
12002	13" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
12003	7" MESQUITE MULTI-STEM
12004	11" CEDAR MULTI-STEM
12005	12" CEDAR MULTI-STEM
12006	11" MESQUITE M
12007	9" CEDAR MULTI-STEM
12008	14" CEDAR MULTI-STEM
12009	12" CEDAR MULTI-STEM
12010	10" CEDAR MULTI-STEM
12011	15" CEDAR MULTI-STEM
12012	12" CEDAR MULTI-STEM
12013	10" CEDAR MULTI-STEM
12014	12" CEDAR MULTI-STEM
12015	8" CEDAR MULTI-STEM
12016	10" CEDAR MULTI-STEM
12017	6" CEDAR MULTI-STEM
12018	11" CEDAR MULTI-STEM
12019	16" CEDAR MULTI-STEM
12020	10" CEDAR MULTI-STEM
12021	13" CEDAR MULTI-STEM
12022	12" CEDAR MULTI-STEM
12023	12" CEDAR MULTI-STEM
12024	12" CEDAR MULTI-STEM
12025	11" CEDAR MULTI-STEM
12026	12" CEDAR MULTI-STEM
12027	13" CEDAR MULTI-STEM
12028	6" CEDAR
12029	10" CEDAR MULTI-STEM
12030	9" CEDAR MULTI-STEM
12031	11" CEDAR MULTI-STEM
12032	9" CEDAR MULTI-STEM
12033	10" CEDAR MULTI-STEM
12034	9" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
12035	9" CEDAR MULTI-STEM
12036	7" CEDAR MULTI-STEM
12037	7" CEDAR MULTI-STEM
12038	7" CEDAR MULTI-STEM
12039	8" CEDAR MULTI-STEM
12040	5" CEDAR
12041	10" CEDAR MULTI-STEM
12042	10" CEDAR MULTI-STEM
12043	8" CEDAR MULTI-STEM
12044	12" CEDAR MULTI-STEM
12045	8" CEDAR MULTI-STEM
12046	6" CEDAR MULTI-STEM
12047	7" CEDAR MULTI-STEM
12048	7" CEDAR MULTI-STEM
12049	13" CEDAR MULTI-STEM
12050	15" CEDAR MULTI-STEM
12051	11" CEDAR MULTI-STEM
12052	9" CEDAR MULTI-STEM
12053	7" CEDAR MULTI-STEM
12054	27" POST OAK MULTI-STEM
12055	7" CEDAR MULTI-STEM
12056	6" CEDAR MULTI-STEM
12057	8" CEDAR MULTI-STEM
12058	14" POST OAK
12059	8" CEDAR
12060	9" CEDAR ELM
12061	10" CEDAR MULTI-STEM
12062	7" CEDAR ELM
12063	7" CEDAR MULTI-STEM
12064	10" CEDAR MULTI-STEM
12065	7" CEDAR MULTI-STEM
12066	6" CEDAR

TREE SURVEY	
#	DESCRIPTION
12067	8" CEDAR ELM
12068	9" CEDAR ELM
12069	25" POST OAK MULTI-STEM
12070	7" CEDAR MULTI-STEM
12071	6" CEDAR MULTI-STEM
12072	11" CEDAR MULTI-STEM
12073	8" CEDAR ELM
12074	6" CEDAR ELM
12075	6" CEDAR
12076	5" CEDAR MULTI-STEM
12077	5" CEDAR
12078	10" CEDAR ELM
12079	8" CEDAR MULTI-STEM
12080	7" CEDAR MULTI-STEM
12081	6" CEDAR ELM
12082	7" CEDAR ELM
12083	7" CEDAR ELM
12084	11" CEDAR ELM MULTI-STEM
12085	10" CEDAR MULTI-STEM
12086	9" CEDAR MULTI-STEM
12087	9" CEDAR MULTI-STEM
12088	12" CEDAR MULTI-STEM
12089	8" CEDAR ELM MULTI-STEM
12090	11" CEDAR MULTI-STEM
12091	7" CEDAR ELM
12092	13" CEDAR MULTI-STEM
12093	5" CEDAR ELM
12094	8" CEDAR ELM
12095	10" CEDAR MULTI-STEM
12096	5" CEDAR
12097	11" CEDAR MULTI-STEM
12098	6" CEDAR ELM

TREE SURVEY	
#	DESCRIPTION
12099	8" CEDAR ELM
12100	6" CEDAR ELM
12101	8" CEDAR ELM
12102	6" CEDAR
12103	12" CEDAR MULTI-STEM
12104	10" CEDAR MULTI-STEM
12105	9" CEDAR ELM MULTI-STEM
12106	5" CEDAR ELM
12107	7" CEDAR MULTI-STEM
12108	6" CEDAR ELM
12109	7" CEDAR ELM MULTI-STEM
12110	11" CEDAR ELM
12111	8" CEDAR ELM
12112	9" CEDAR ELM
12113	9" CEDAR ELM MULTI-STEM
12114	10" CEDAR ELM
12115	5" CEDAR ELM
12116	7" CEDAR MULTI-STEM
12117	17" CEDAR ELM
12118	7" CEDAR ELM
12119	7" CEDAR MULTI-STEM
12120	9" CEDAR MULTI-STEM
12121	12" CEDAR MULTI-STEM
12122	8" CEDAR MULTI-STEM
12123	12" CEDAR ELM
12124	14" CEDAR ELM MULTI-STEM
12125	12" CEDAR MULTI-STEM
12126	9" CEDAR ELM MULTI-STEM
12127	8" LIVE OAK
12128	7" CEDAR MULTI-STEM
12129	7" CEDAR
12130	7" CEDAR ELM MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
12131	5" CEDAR ELM
12132	10" CEDAR MULTI-STEM
12133	6" CEDAR ELM MULTI-STEM
12134	8" CEDAR MULTI-STEM
12135	10" CEDAR MULTI-STEM
12136	9" CEDAR
12137	16" CEDAR MULTI-STEM
12138	17" CEDAR MULTI-STEM
12139	7" CEDAR ELM MULTI-STEM
12140	7" CEDAR ELM MULTI-STEM
12141	10" CEDAR MULTI-STEM
12142	9" CEDAR MULTI-STEM
12143	13" CEDAR MULTI-STEM
12144	8" CEDAR MULTI-STEM
12145	10" CEDAR MULTI-STEM
12146	6" CEDAR
12147	6" CEDAR
12148	11" CEDAR MULTI-STEM
12149	12" CEDAR MULTI-STEM
12150	11" CEDAR MULTI-STEM
12151	14" CEDAR MULTI-STEM
12152	9" CEDAR MULTI-STEM
12153	35" CEDAR ELM
12154	6" CEDAR
12155	5" CEDAR
12156	6" CEDAR
12157	10" CEDAR MULTI-STEM
12158	8" CEDAR
12159	6" CEDAR MULTI-STEM
12160	6" CEDAR MULTI-STEM
12161	8" CEDAR ELM
12162	8" CEDAR ELM

TREE SURVEY	
#	DESCRIPTION
12163	9" CEDAR MULTI-STEM
12164	12" CEDAR MULTI-STEM
12165	12" CEDAR MULTI-STEM
12166	5" CEDAR
12167	7" CEDAR MULTI-STEM
12168	15" CEDAR MULTI-STEM
12169	14" CEDAR MULTI-STEM
12170	15" CEDAR ELM
12171	6" CEDAR ELM MULTI-STEM
12172	9" CEDAR ELM
12173	11" CEDAR ELM MULTI-STEM
12174	9" CEDAR ELM MULTI-STEM
12175	17" CEDAR
12176	8" CEDAR
12177	11" CEDAR MULTI-STEM
12178	5" CEDAR ELM
12179	8" CEDAR MULTI-STEM
12180	12" CEDAR
12181	9" CEDAR MULTI-STEM
12182	10" CEDAR ELM MULTI-STEM
12183	12" CEDAR MULTI-STEM
12184	10" CEDAR MULTI-STEM
12185	14" CEDAR ELM MULTI-STEM
12838	10" CEDAR MULTI-STEM
12839	10" LIVE OAK
12840	9" LIVE OAK
12841	8" CEDAR MULTI-STEM
12842	8" CEDAR MULTI-STEM
12843	8" CEDAR MULTI-STEM
12844	8" CEDAR MULTI-STEM
12845	8" LIVE OAK
12846	9" LIVE OAK

TREE SURVEY	
#	DESCRIPTION
12847	12" LIVE OAK
12848	8" LIVE OAK MULTI-STEM
12849	9" CEDAR MULTI-STEM
12850	14" CEDAR MULTI-STEM
12851	10" CEDAR MULTI-STEM
12852	8" CEDAR
12853	10" LIVE OAK
12854	11" LIVE OAK
12855	19" CEDAR MULTI-STEM
12856	8" HACKBERRY MULTI-STEM
12857	12" CEDAR MULTI-STEM
12858	30" CEDAR MULTI-STEM
12859	28" CEDAR MULTI-STEM
12860	16" CEDAR MULTI-STEM
12861	14" CEDAR MULTI-STEM
12862	10" LIVE OAK MULTI-STEM
12863	10" HACKBERRY MULTI-STEM
12864	9" HACKBERRY MULTI-STEM
12865	15" POST OAK
12866	14" POST OAK
12867	9" POST OAK

TREE REMOVAL	
NUMBER	DESCRIPTION
917	10" MESQUITE MULTI-STEM
928	12" CHINABERRY
929	20" HACKBERRY
932	16" LIGUSTRUM MULTI-STEM
951	14" CEDAR ELM
960	9" CEDAR ELM
962	13" LIVE OAK
963	12" CEDAR ELM MULTI-STEM
1038	33" CEDAR MULTI-STEM
1050	10" CEDAR ELM
1051	8" CEDAR ELM MULTI-STEM
1063	8" CEDAR
1064	9" CEDAR
1073	9" CEDAR
1085	10" CEDAR
1664	14" (DEAD)
1666	9" CEDAR MULTI-STEM
1667	10" CEDAR MULTI-STEM
1674	26" (DEAD)
2868	14" CEDAR EL
2869	14" LIVE OAK
2871	8" CEDAR ELM
2873	10" CEDAR ELM
2875	11" CEDAR ELM
2876	12" CEDAR
2877	9" HACKBERRY
2881	12" LIGUSTRUM MULTI-STEM
2882	14" CEDAR ELM
2883	10" CEDAR MULTI-STEM
2884	18" CEDAR ELM (DEAD)

TREE REMOVAL	
NUMBER	DESCRIPTION
2885	11" CEDAR ELM
2888	13" CEDAR ELM
2891	8" LIGUSTRUM MULTI-STEM
2892	12" CEDAR ELM
12086	9" CEDAR MULTI-STEM

TREE REMOVAL - SUNSET VALLEY	
NUMBER	DESCRIPTION
1106	6" CEDAR MULTI-STEM
1107	17" CEDAR MULTI-STEM
1108	6" CEDAR MULTI-STEM
1109	8" CEDAR MULTI-STEM
1110	6" CEDAR
1111	6" CEDAR
1127	5" LIVE OAK
1128	7" CEDAR
1129	7" CEDAR
1148	10" CEDAR
1149	6" CEDAR MULTI-STEM
1151	14" CEDAR MULTI-STEM
1153	15" CEDAR MULTI-STEM
1164	7" CEDAR
1166	8" CEDAR
1167	9" LIGUSTRUM MULTI-STEM
1178	8" CEDAR MULTI-STEM
1179	10" CEDAR MULTI-STEM
1209	7" CEDAR MULTI-STEM
1254	12" CEDAR MULTI-STEM
1293	10" CEDAR MULTI-STEM
12016	10" CEDAR MULTI-STEM
12017	6" CEDAR MULTI-STEM
12018	11" CEDAR MULTI-STEM
12019	16" CEDAR MULTI-STEM
12020	10" CEDAR MULTI-STEM
12049	13" CEDAR MULTI-STEM
12050	15" CEDAR MULTI-STEM
12051	11" CEDAR MULTI-STEM
12061	10" CEDAR MULTI-STEM

TREE REMOVAL - SUNSET VALLEY	
NUMBER	DESCRIPTION
12063	7" CEDAR MULTI-STEM
12084	11" CEDAR ELM MULTI-STEM
12087	9" CEDAR MULTI-STEM
12095	10" CEDAR MULTI-STEM
12163	9" CEDAR MULTI-STEM
12164	12" CEDAR MULTI-STEM
12165	12" CEDAR MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1601	16" LIVE OAK
1602	16" LIVE OAK
1603	8" CEDAR ELM
1604	8" CEDAR ELM
1605	11" CEDAR ELM
1606	12" CEDAR ELM MULTI-STEM
1607	13" CEDAR
1608	10" CEDAR ELM MULTI-STEM
1609	8" LIVE OAK
1610	13" CEDAR ELM MULTI-STEM
1611	8" LIVE OAK
1612	10" LIVE OAK
1613	12" LIVE OAK
1614	13" LIVE OAK
1615	11" LIVE OAK
1616	24" LIVE OAK MULTI-STEM
1617	15" CEDAR ELM
1618	11" CEDAR ELM
1619	10" LIVE OAK
1620	11" LIVE OAK
1621	20" LIVE OAK
1622	19" LIVE OAK MULTI-STEM
1623	12" LIVE OAK
1624	11" CEDAR ELM
1625	11" CEDAR ELM
1626	9" LIVE OAK
1627	11" CEDAR ELM
1628	15" LIVE OAK MULTI-STEM
1629	9" LIVE OAK
1630	11" LIVE OAK MULTI-STEM

TREE SURVEY	
#	DESCRIPTION
1631	9" LIVE OAK
1632	10" CEDAR ELM MULTI-STEM
1633	8" CEDAR ELM
1634	10" CEDAR ELM MULTI-STEM
1635	12" CEDAR ELM
1636	8" CEDAR ELM
1637	13" CEDAR ELM
1638	11" LIVE OAK
1639	11" LIVE OAK
1640	8" LIVE OAK
1641	13" LIVE OAK
1642	9" LIVE OAK
1643	13" LIVE OAK
1644	15" LIVE OAK MULTI-STEM
1645	8" LIVE OAK
1646	8" LIVE OAK
1647	12" LIVE OAK
1648	12" CEDAR ELM

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION & SEDIMENTATION CONTROL
TREE LIST - SHEET 1 OF 2

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

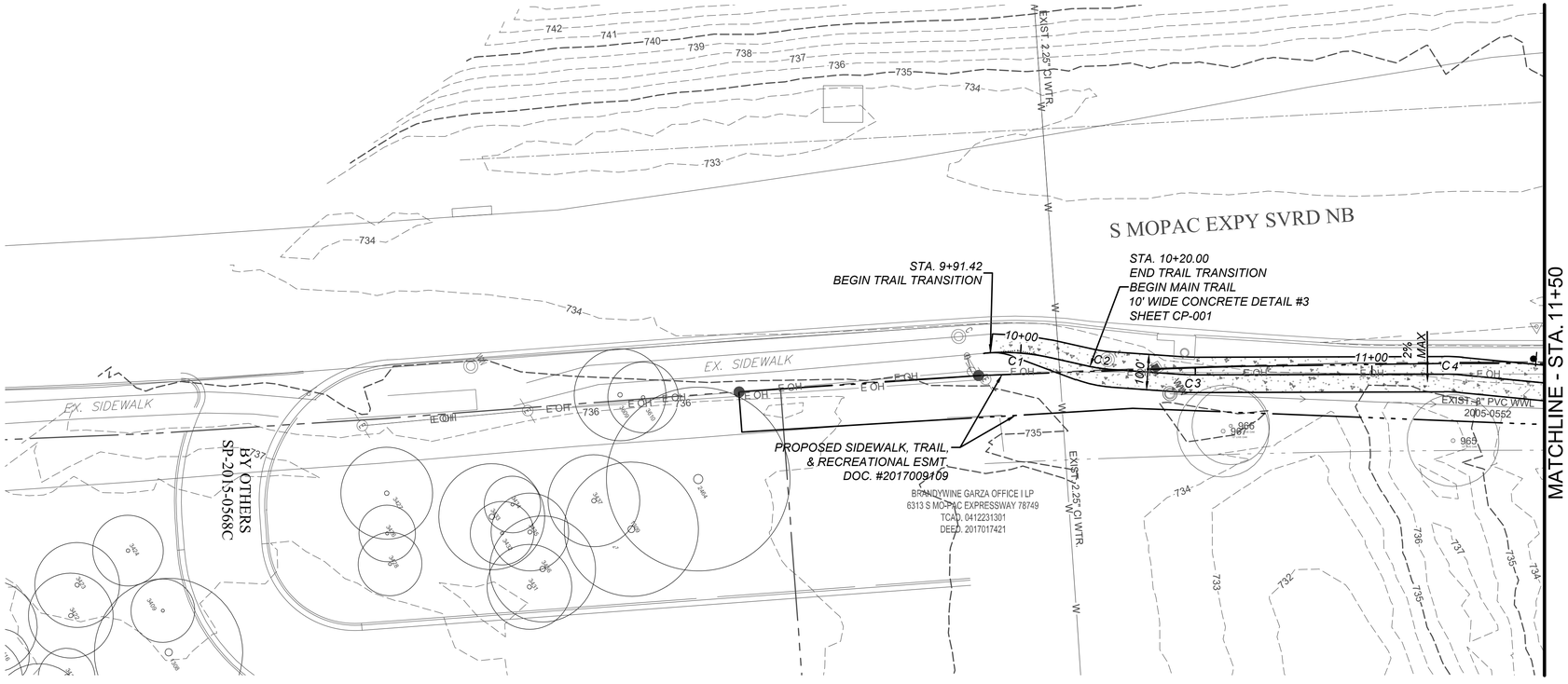
ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

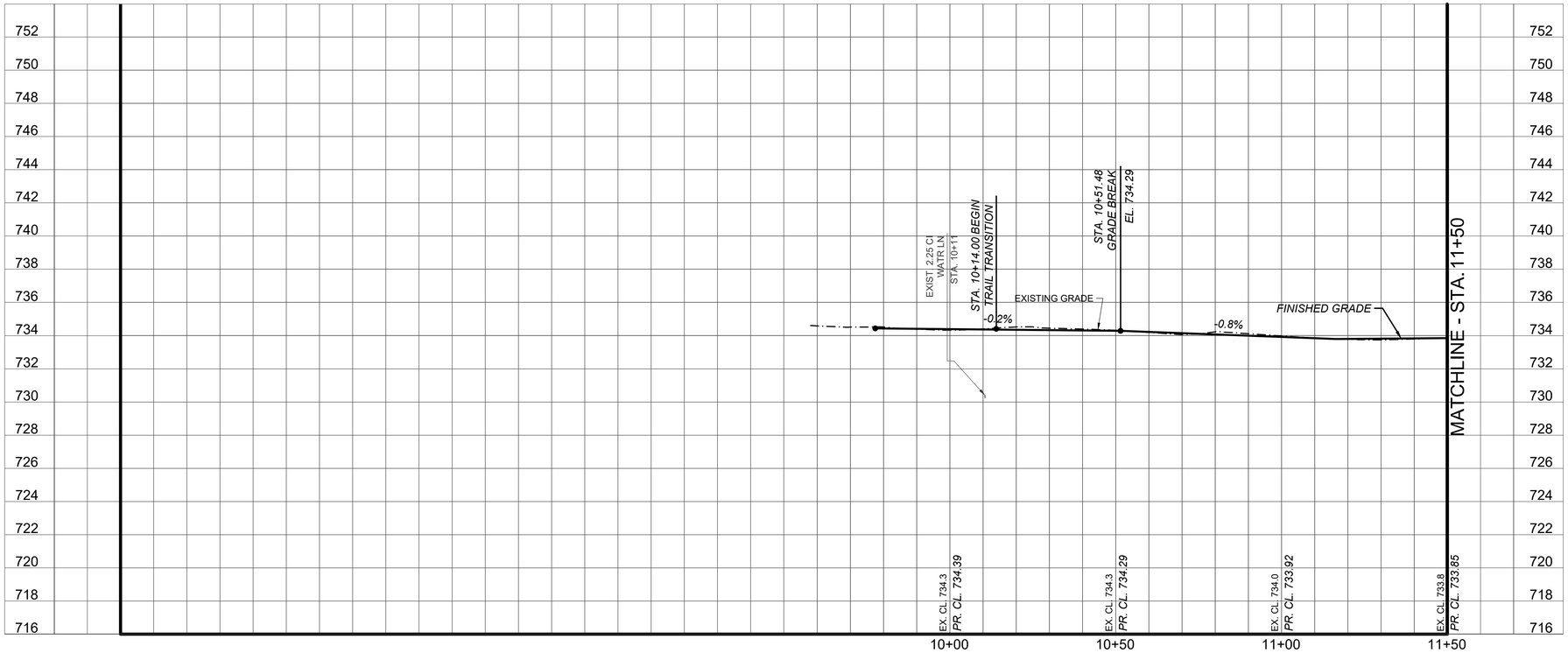
CE-602 | 25 OF 89

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-C-EV-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

7/27/2021 10:03 AM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C1	60.00	18.51	N35° 34' 14"E	STA. 9+89.88 N. 10053257.00 E. 3085687.10	STA. 10+08.39 N. 10053271.99 E. 3085697.83
C2	30.00	4.55	N40° 03' 50"E	STA. 10+20.59 N. 10053280.71 E. 3085706.36	STA. 10+25.14 N. 10053284.19 E. 3085709.29
C3	50.00	3.58	N33° 39' 57"E	STA. 10+46.17 N. 10053301.26 E. 3085721.56	STA. 10+49.75 N. 10053304.24 E. 3085723.55
C4	50.00	4.95	N34° 26' 50"E	STA. 11+20.44 N. 10053364.45 E. 3085760.61	STA. 11+25.39 N. 10053368.53 E. 3085763.40



REV NO.	DATE	BY	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
BEGIN - STA. 11+50

CITY OF AUSTIN
FOUNDED 1839

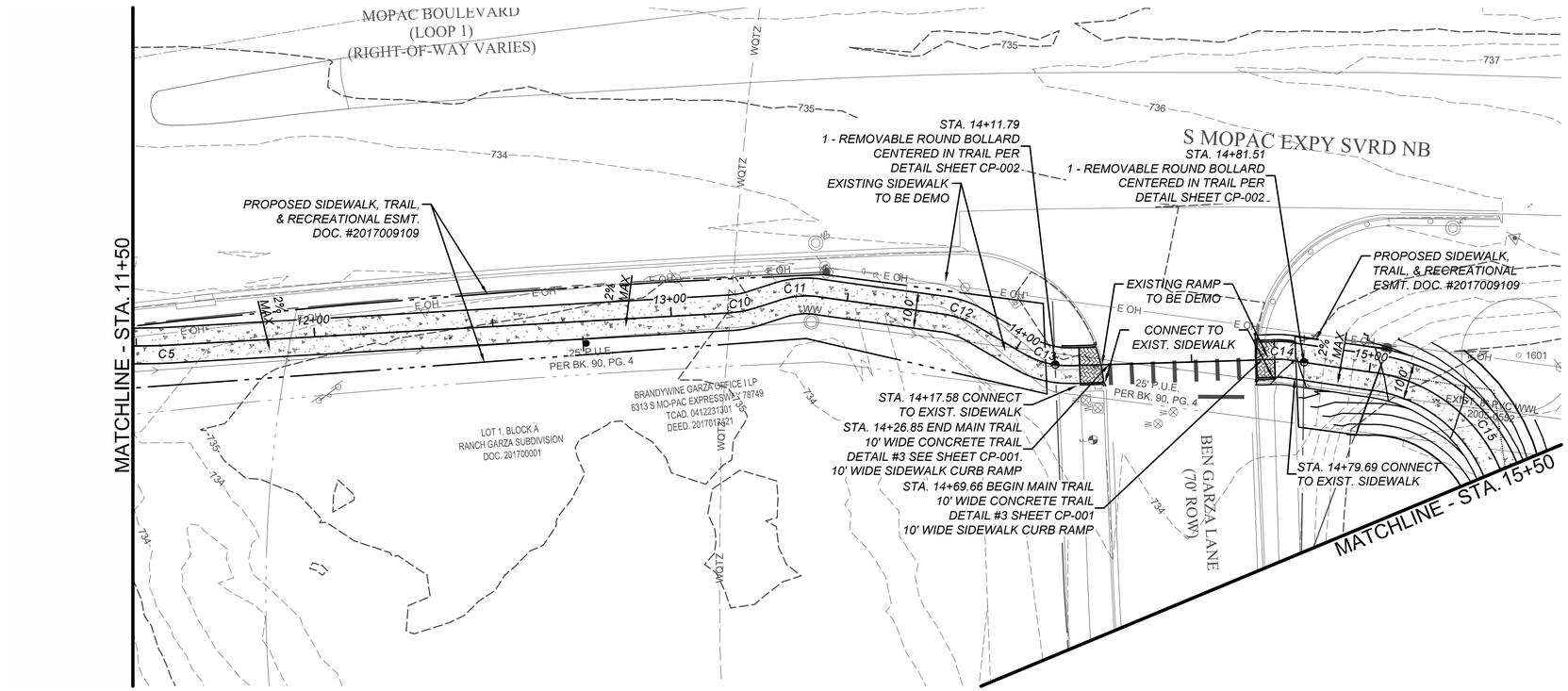
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

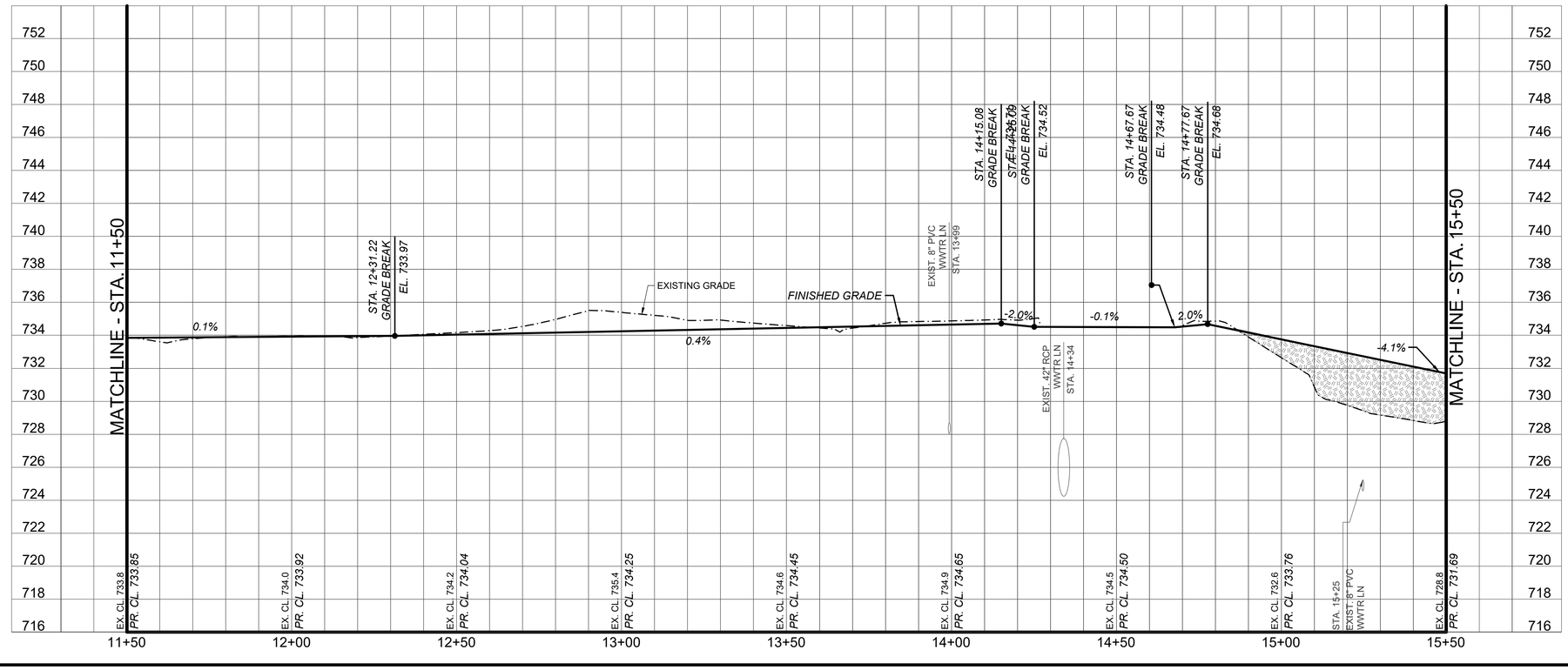
GP-2020-0085.PW

CP-201 | 26 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VTRC-CRD-PLP01.DWG, CP-201, 7/27/2021 10:22 AM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C5	100.00	4.11	N36° 06' 18"E	STA. 11+56.28 N. 10053393.10 E. 3085782.11	STA. 11+60.39 N. 10053396.42 E. 3085784.53
C10	25.00	6.33	N27° 40' 37"E	STA. 13+16.91 N. 10053524.75 E. 3085874.15	STA. 13+23.23 N. 10053530.33 E. 3085877.08
C11	25.00	11.22	N33° 16' 53"E	STA. 13+30.75 N. 10053537.38 E. 3085879.70	STA. 13+41.97 N. 10053546.68 E. 3085885.81
C12	25.00	9.79	N57° 21' 06"E	STA. 13+76.99 N. 10053570.95 E. 3085911.05	STA. 13+86.77 N. 10053576.19 E. 3085919.24
C13	25.00	13.98	N52° 32' 54"E	STA. 14+02.27 N. 10053581.85 E. 3085933.67	STA. 14+16.25 N. 10053590.24 E. 3085944.62
C14	25.00	4.41	N41° 35' 07"E	STA. 14+73.42 N. 10053636.19 E. 3085978.65	STA. 14+77.84 N. 10053639.48 E. 3085981.58
C15	45.00	57.61	N83° 18' 51"E	STA. 15+01.76 N. 10053655.91 E. 3085998.97	STA. 15+59.37 N. 10053662.17 E. 3086052.36



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745 ON

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 11+50 - STA. 15+50

YAMAGUCHI, RIA

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-202 | 27 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VTR-C-CRD-PLP001.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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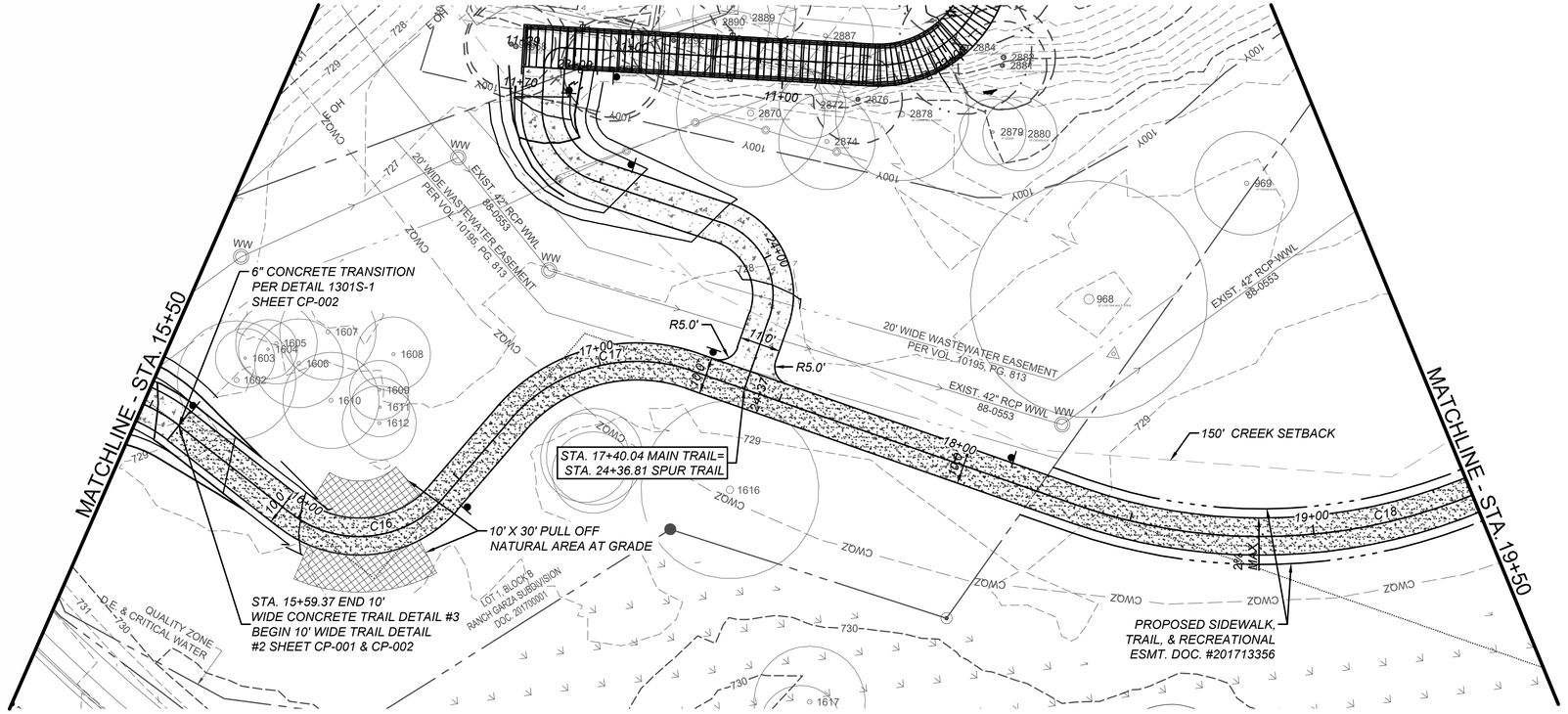
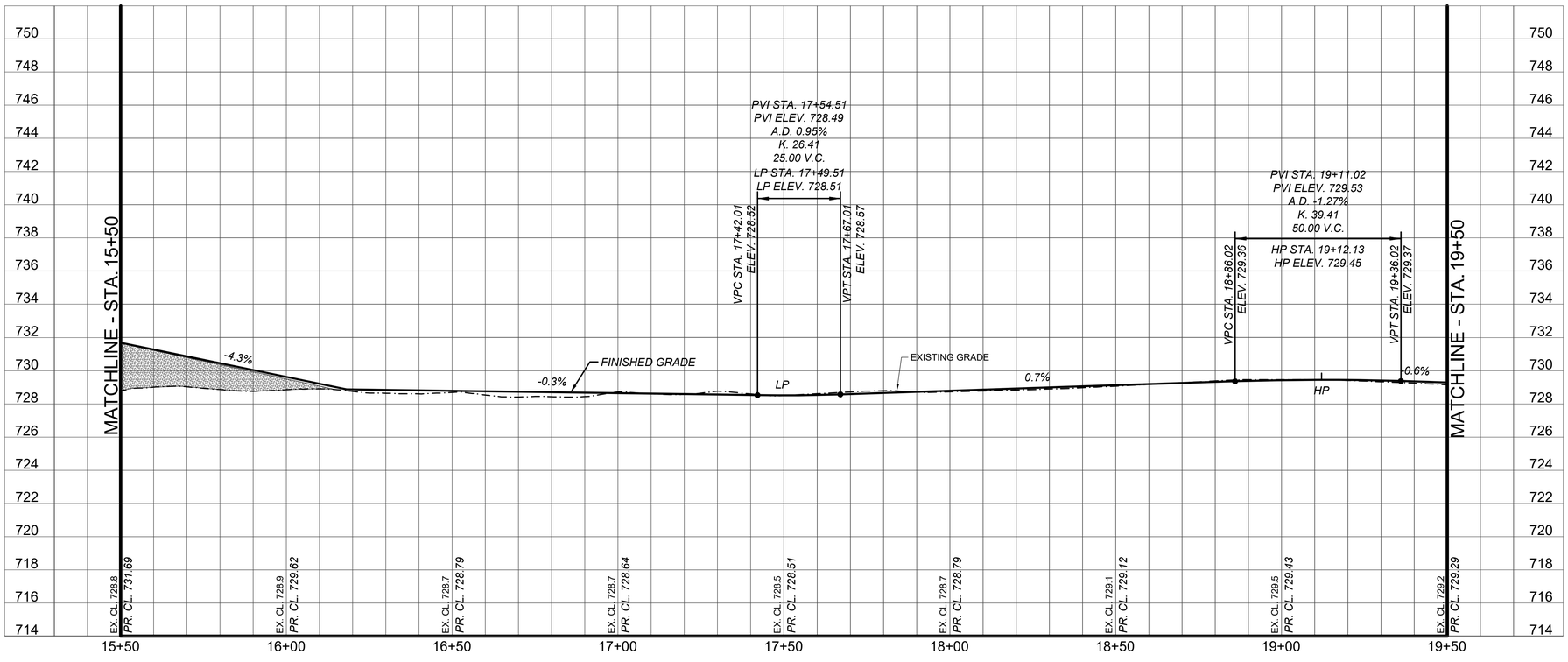


CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C16	30.00	45.72	N76° 19' 45"E	STA. 15+97.61 N. 10053643.06 E. 3086085.48	STA. 16+43.33 N. 10053652.85 E. 3086125.73
C17	45.00	53.81	N66° 55' 30"E	STA. 16+71.23 N. 10053676.34 E. 3086140.79	STA. 17+25.04 N. 10053696.19 E. 3086187.40
C18	150.00	226.37	N57° 56' 44"E	STA. 18+35.48 N. 10053674.78 E. 3086295.74	STA. 20+61.85 N. 10053783.84 E. 3086469.91

NOTE:

1. *PULL OFF AREAS ARE IDENTIFIED AS AREAS WHERE NO PLANTINGS ARE TO BE INSTALLED. AREAS ARE TO REMAIN AT EXISTING GRADE AND EXISTING CONDITIONS WHERE NOT IMPACTED BY TRAIL CONSTRUCTION.*



REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RAY

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 15+50 - STA. 19+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-203 | 28 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VTR-C-CRD-PLP901.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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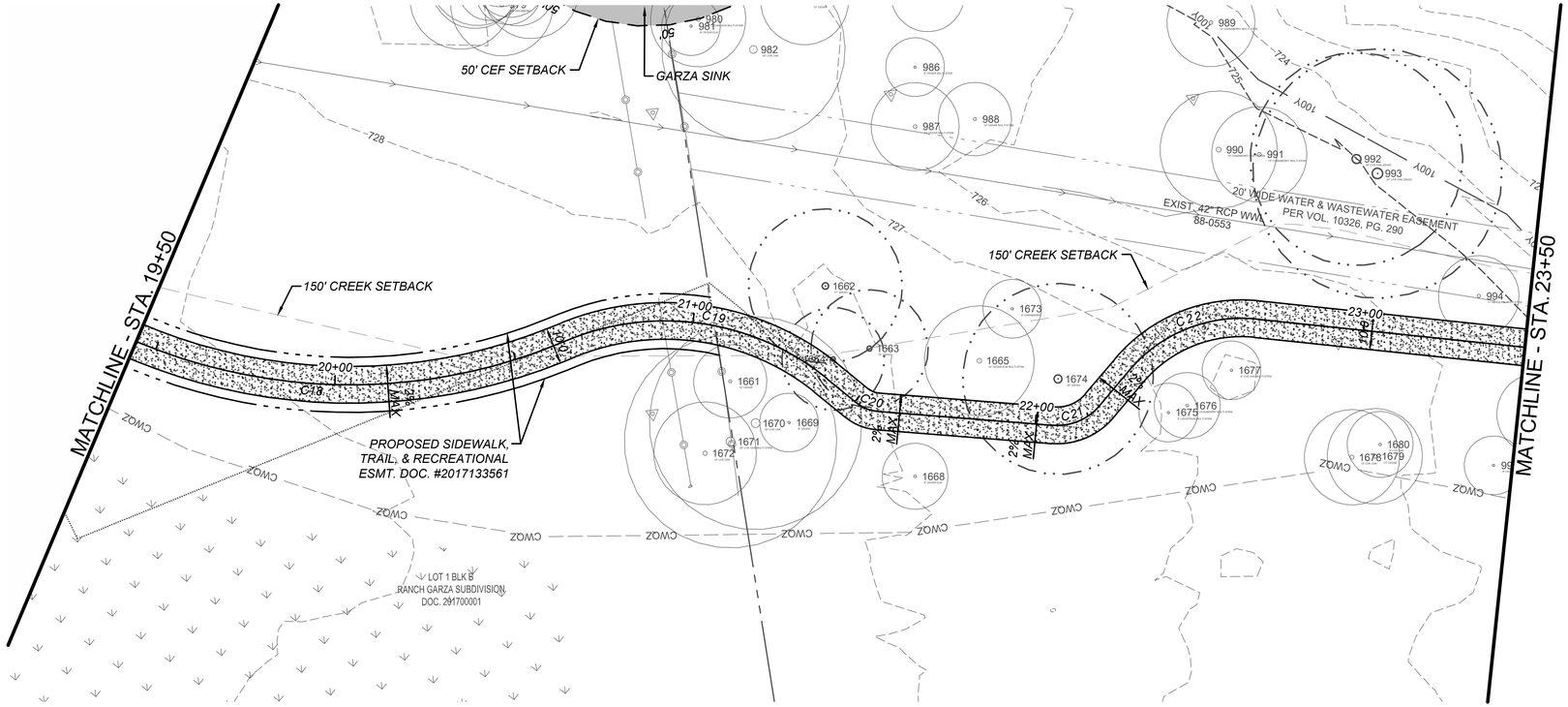
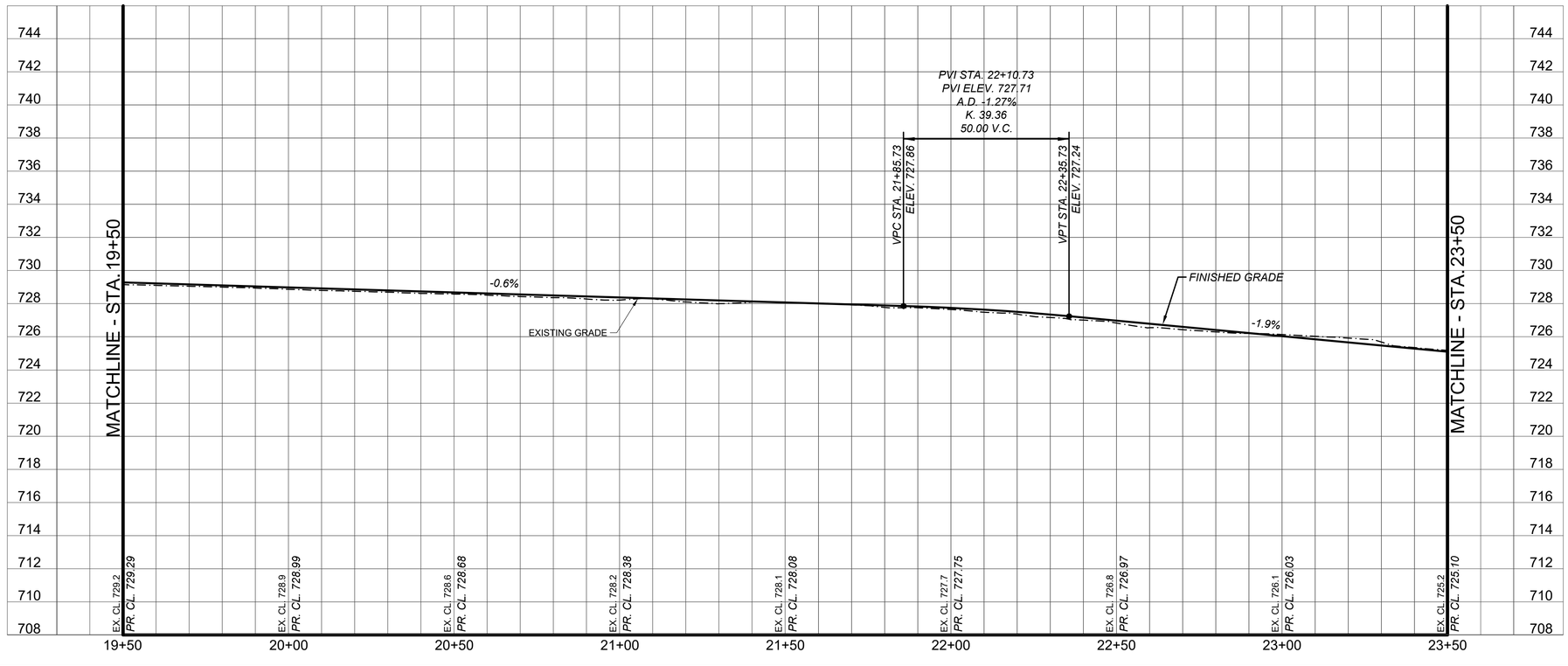


CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C18	150.00	226.37	N57° 56' 44"E	STA. 18+35.48 N. 10053674.78 E. 3086295.74	STA. 20+61.85 N. 10053783.84 E. 3086469.91
C19	70.00	74.68	N45° 16' 36"E	STA. 20+65.42 N. 10053787.30 E. 3086470.81	STA. 21+40.11 N. 10053837.39 E. 3086521.40
C20	10.00	6.04	N58° 32' 12"E	STA. 21+50.74 N. 10053839.99 E. 3086531.71	STA. 21+56.78 N. 10053843.10 E. 3086536.78
C21	15.00	14.21	N14° 05' 51"E	STA. 22+04.82 N. 10053879.23 E. 3086568.45	STA. 22+19.03 N. 10053892.50 E. 3086571.78
C22	40.00	38.92	N14° 50' 07"E	STA. 22+31.75 N. 10053904.89 E. 3086568.91	STA. 22+70.67 N. 10053941.05 E. 3086578.48



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 19+50 - STA. 23+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-204 | 29 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-CRD-PLPR01.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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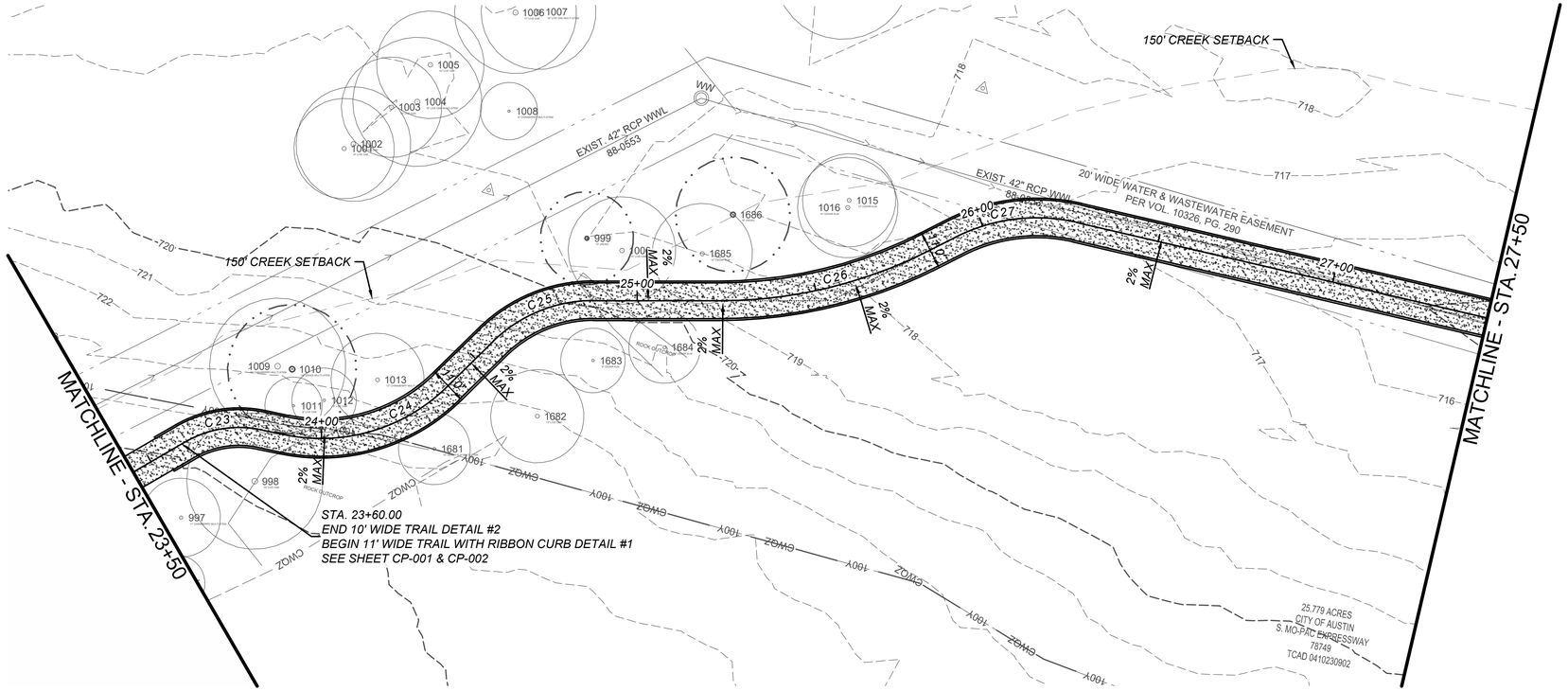
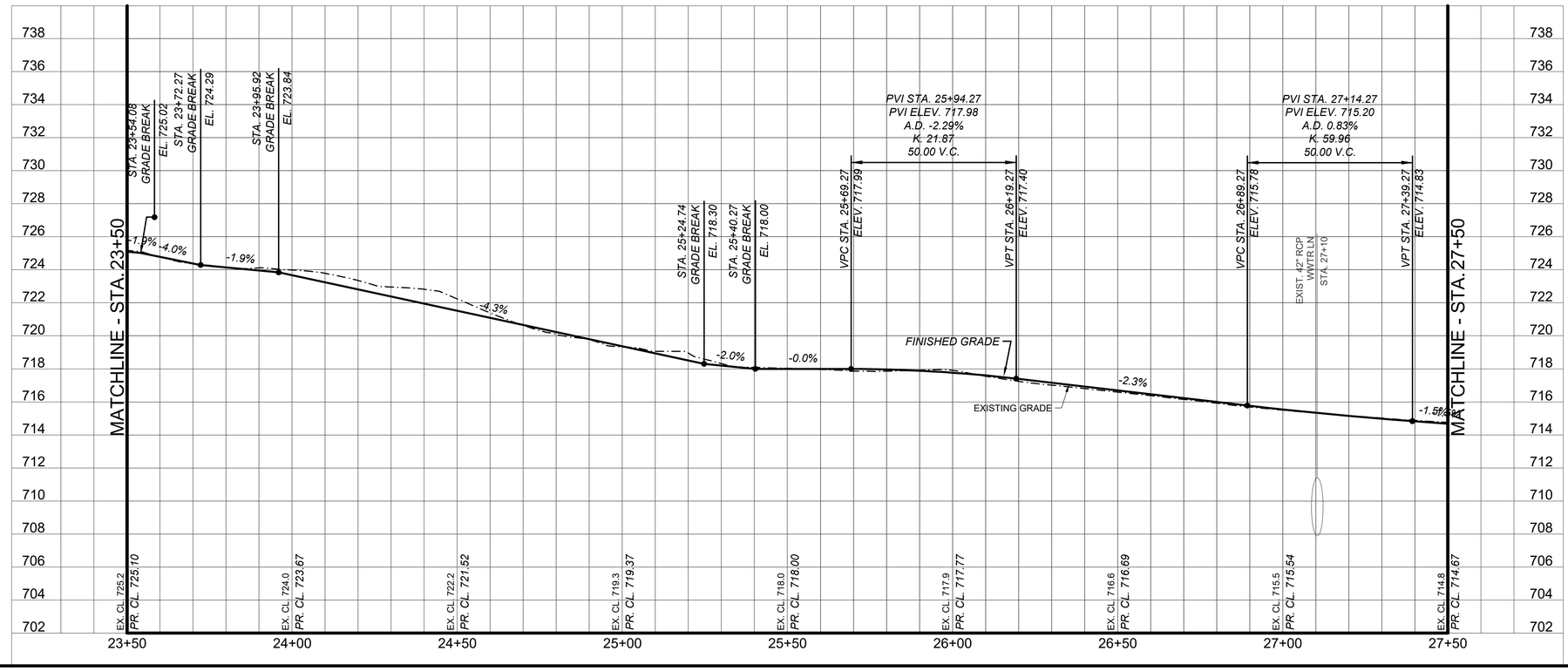


CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C23	30.00	21.88	N63° 36' 19"E	STA. 23+60.98 N. 10054007.41 E. 3086639.74	STA. 23+82.87 N. 10054016.93 E. 3086658.91
C24	50.00	48.98	N56° 26' 26"E	STA. 23+89.63 N. 10054017.57 E. 3086665.64	STA. 24+38.60 N. 10054043.58 E. 3086704.84
C25	40.00	31.01	N50° 35' 12"E	STA. 24+56.69 N. 10054059.49 E. 3086713.44	STA. 24+87.70 N. 10054078.69 E. 3086736.80
C26	130.00	61.16	N59° 19' 00"E	STA. 25+22.82 N. 10054089.08 E. 3086770.35	STA. 25+83.98 N. 10054120.01 E. 3086822.46
C27	50.00	34.94	N65° 51' 28"E	STA. 25+91.77 N. 10054125.43 E. 3086828.05	STA. 26+26.72 N. 10054139.43 E. 3086859.29



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745 ON 7/27/21

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 23+50 - STA. 27+50

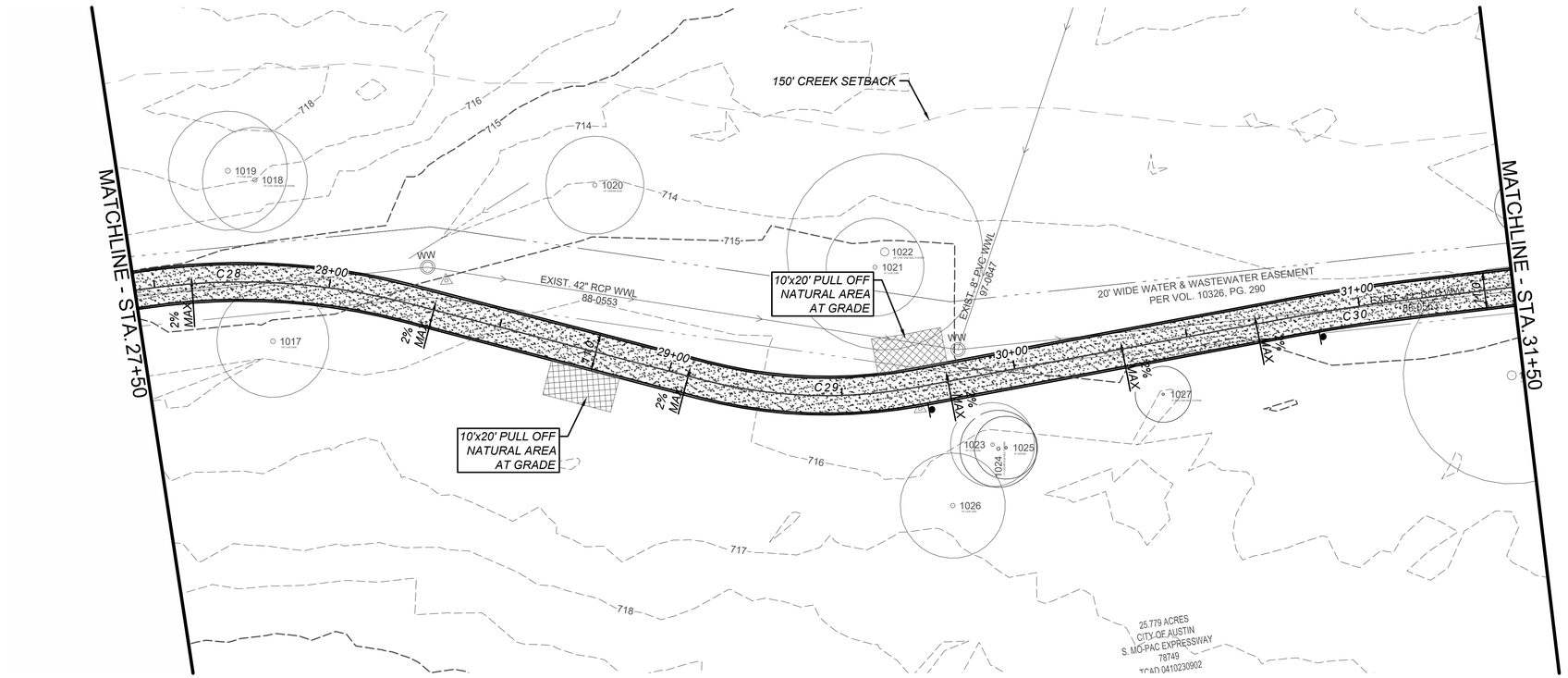
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-205 | 30 OF 89

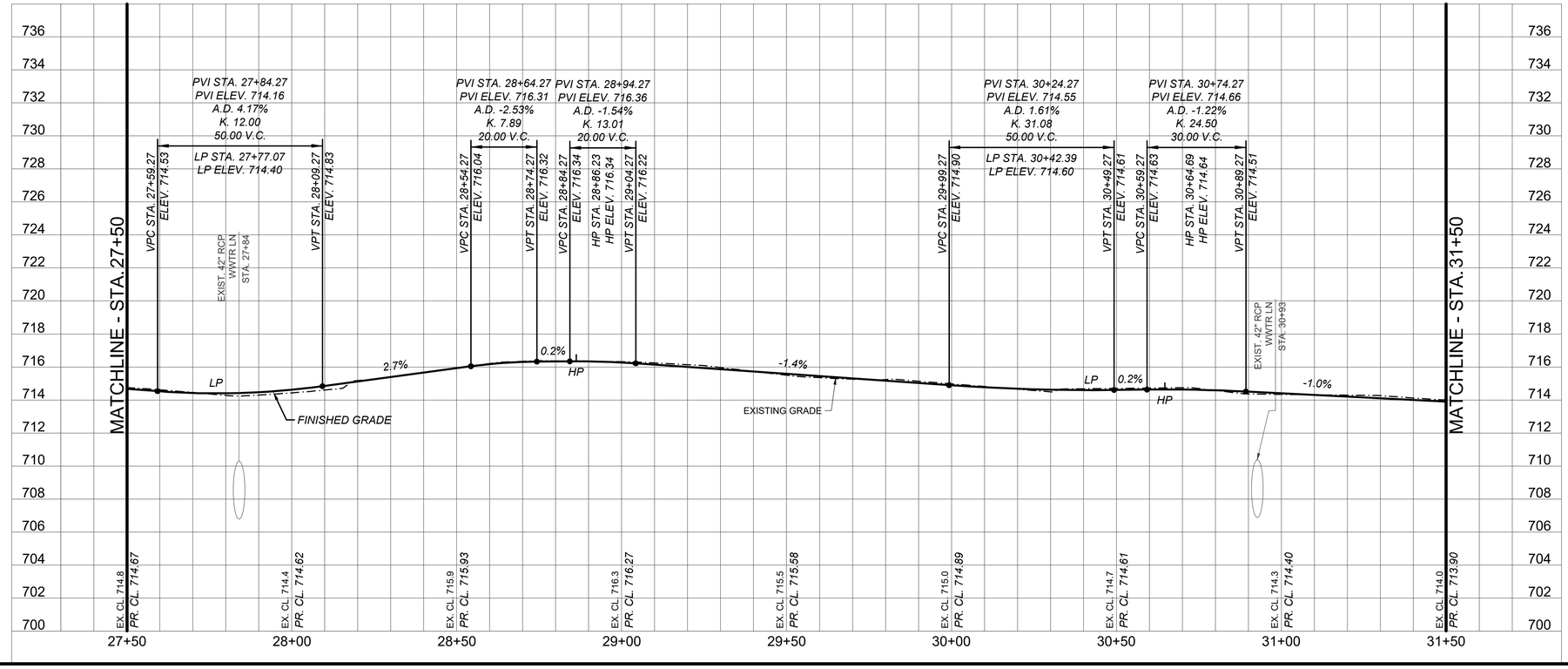
C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VTRC-CRD-PLPR01.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
7/27/2021 10:25 AM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C28	190.00	76.97	S82° 31' 04"E	STA. 27+45.93 N. 10054148.00 E. 3086978.19	STA. 28+22.89 N. 10054138.05 E. 3087053.98
C29	140.00	61.31	S83° 27' 29"E	STA. 29+10.02 N. 10054109.56 E. 3087136.32	STA. 29+71.32 N. 10054102.63 E. 3087196.74
C30	500.00	32.81	N85° 52' 38"E	STA. 30+80.71 N. 10054114.07 E. 3087305.53	STA. 31+13.53 N. 10054116.43 E. 3087338.25

NOTE:

1. *PULL OFF AREAS ARE IDENTIFIED AS AREAS WHERE NO PLANTINGS ARE TO BE INSTALLED. AREAS ARE TO REMAIN AT EXISTING GRADE AND EXISTING CONDITIONS WHERE NOT IMPACTED BY TRAIL CONSTRUCTION.*



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR. UC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 27+50 - STA. 31+50

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

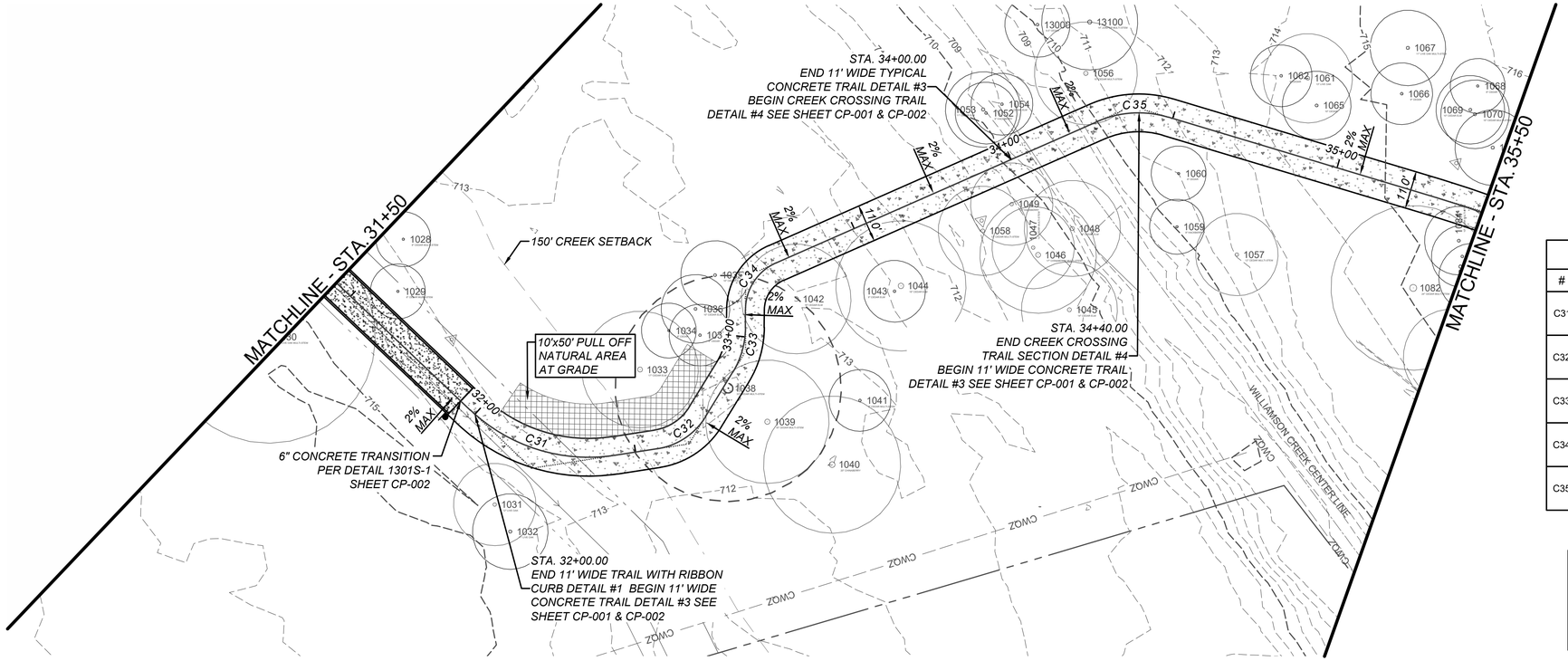
0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-206 | 31 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VTRC-CRD-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

7/29/2021 1:26 PM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C31	50.00	45.69	N61° 34' 51"E	STA. 31+98.14 N. 10054119.74 E. 3087422.80	STA. 32+43.82 N. 10054140.74 E. 3087461.60
C32	20.00	17.33	N10° 35' 13"E	STA. 32+56.42 N. 10054151.00 E. 3087468.89	STA. 32+73.75 N. 10054167.51 E. 3087471.98
C33	25.00	13.72	N29° 57' 29"W	STA. 32+89.00 N. 10054182.29 E. 3087468.23	STA. 33+02.73 N. 10054194.04 E. 3087461.46
C34	15.00	17.31	N12° 37' 15"W	STA. 33+07.80 N. 10054197.58 E. 3087457.83	STA. 33+25.11 N. 10054213.55 E. 3087454.25
C35	30.00	21.18	N40° 39' 57"E	STA. 34+27.45 N. 10054309.44 E. 3087490.00	STA. 34+48.62 N. 10054325.17 E. 3087503.51

NOTE:

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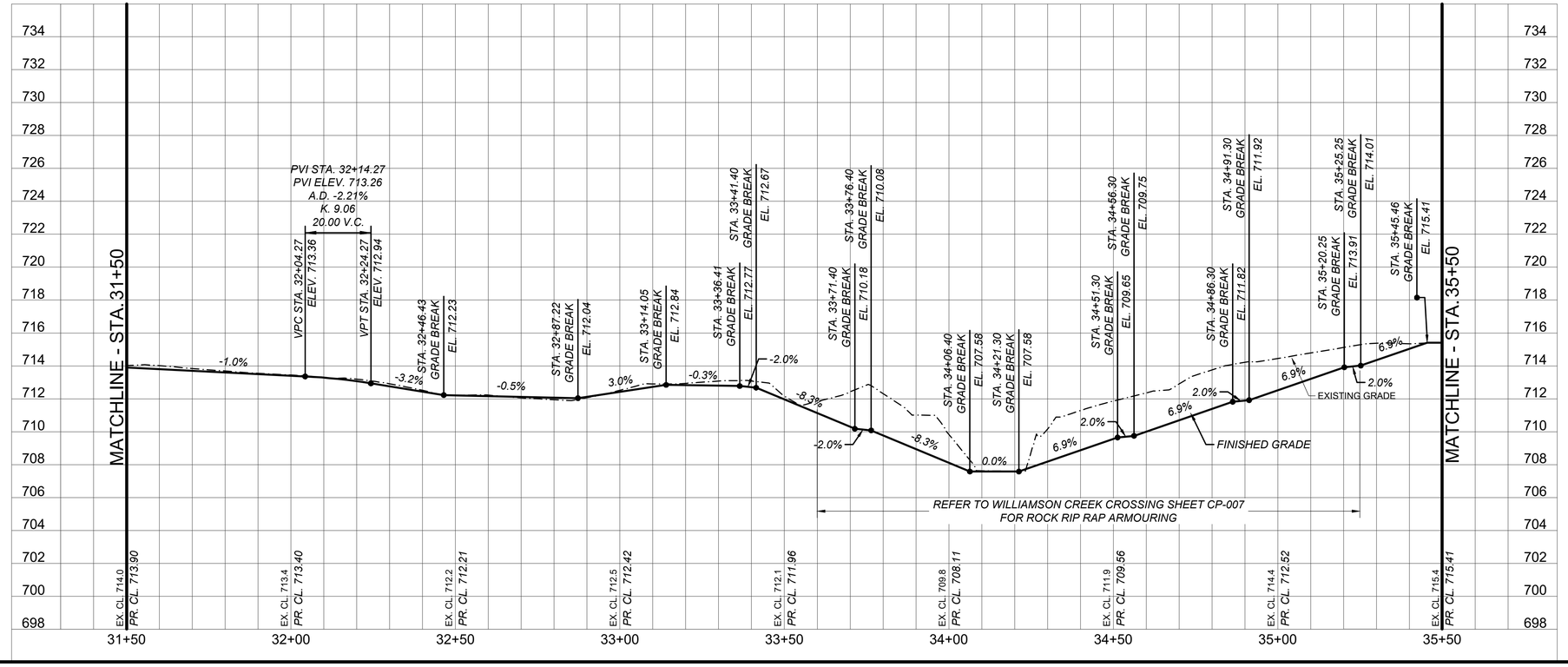

NOTE:

PROPOSED ROCK BOULDERS TO BE SOURCED FROM SITE. REFER TO OVERALL MAP SHEET G-101 FOR LOCATION.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
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PROFESSIONAL ENGINEER

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 31+50 - STA. 35+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-207 | 32 OF 89

C:\USERS\YAMAGU\CHRIS\CITY OF AUSTIN\PWD\ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR\C-CRD-PLPR02.DWG, C-CRD-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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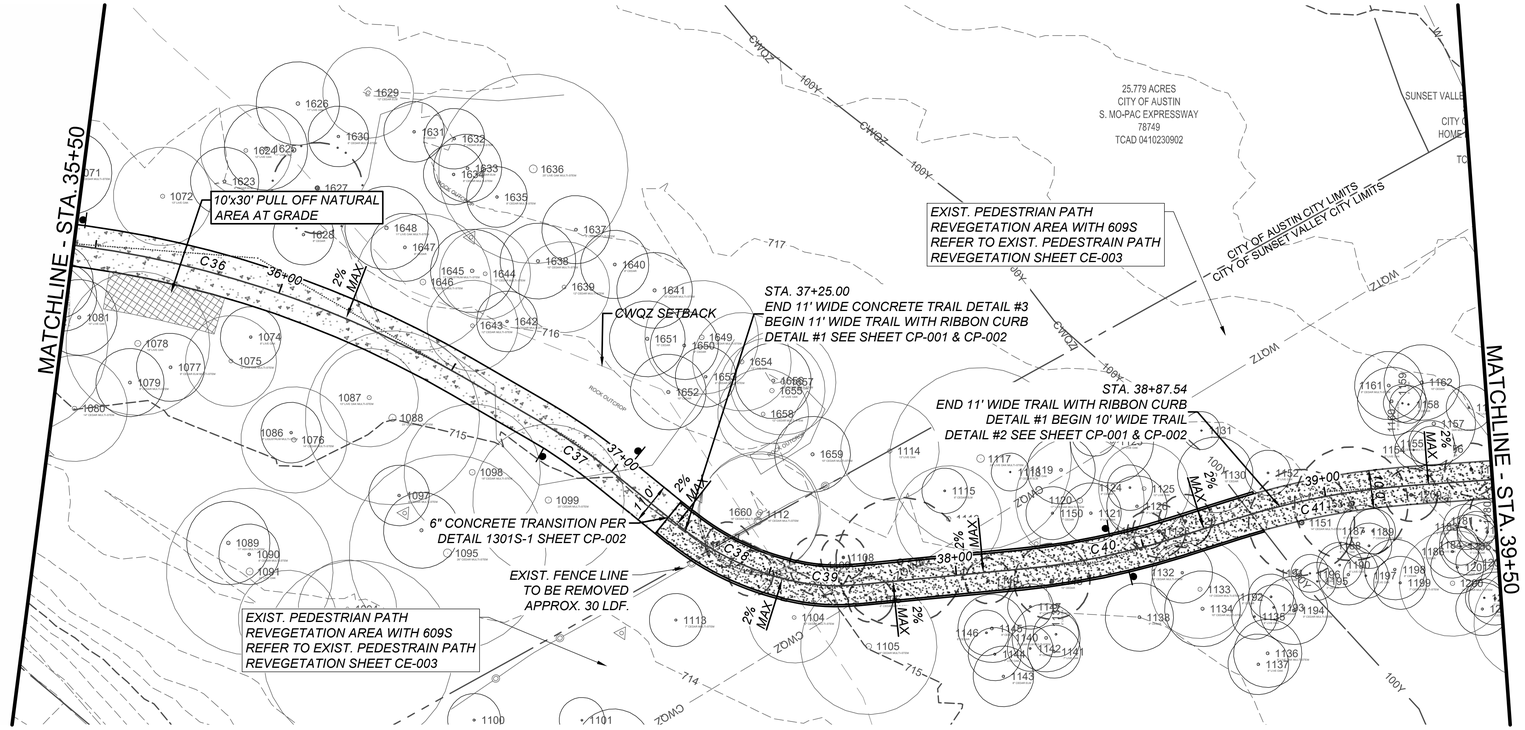
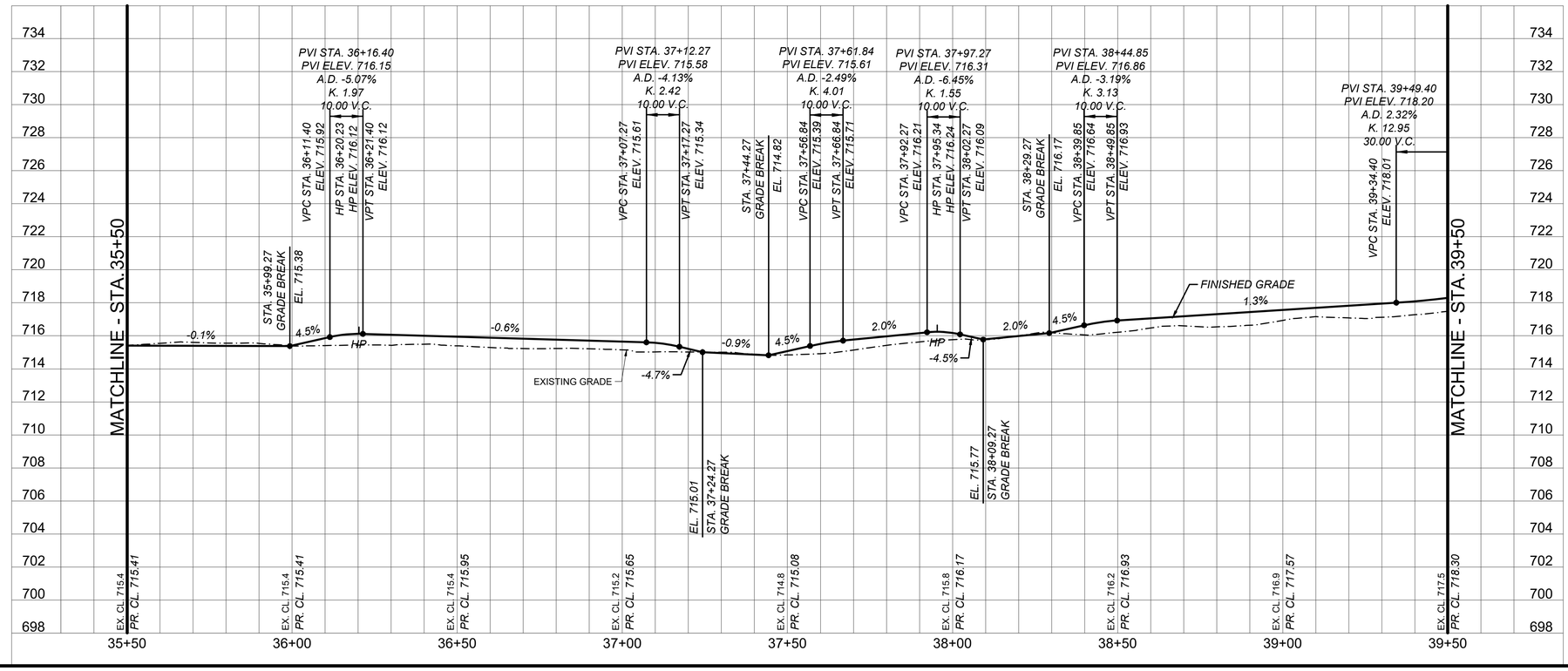


CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C36	275.00	122.82	N73° 40' 57"E	STA. 35+30.43 N. 10054364.97 E. 3087574.99	STA. 36+53.25 N. 10054399.20 E. 3087691.88
C37	150.00	23.49	S89° 02' 12"E	STA. 36+76.10 N. 10054400.60 E. 3087714.69	STA. 36+99.59 N. 10054400.20 E. 3087738.15
C38	70.00	31.13	N82° 42' 30"E	STA. 37+23.58 N. 10054397.93 E. 3087762.03	STA. 37+54.72 N. 10054401.85 E. 3087792.66
C39	50.00	16.62	N60° 26' 42"E	STA. 37+56.20 N. 10054402.35 E. 3087794.05	STA. 37+72.82 N. 10054410.51 E. 3087808.44
C40	200.00	41.95	N44° 54' 52"E	STA. 38+17.13 N. 10054438.45 E. 3087842.85	STA. 38+59.08 N. 10054468.10 E. 3087872.41
C41	200.00	46.59	N45° 34' 45"E	STA. 38+75.37 N. 10054480.78 E. 3087882.64	STA. 39+21.96 N. 10054513.31 E. 3087915.84

NOTE:

1. *PULL OFF AREAS ARE IDENTIFIED AS AREAS WHERE NO PLANTINGS ARE TO BE INSTALLED. AREAS ARE TO REMAIN AT EXISTING GRADE AND EXISTING CONDITIONS WHERE NOT IMPACTED BY TRAIL CONSTRUCTION.*



REV NO.	BY	DATE	REVISION DESCRIPTION

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07.29.2021
RUBEN LOPEZ, JR
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 35+50 - STA. 39+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-208 | 33 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-CRD-PLPR02.DWG, CP-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
YAMAGUCHI, RIA
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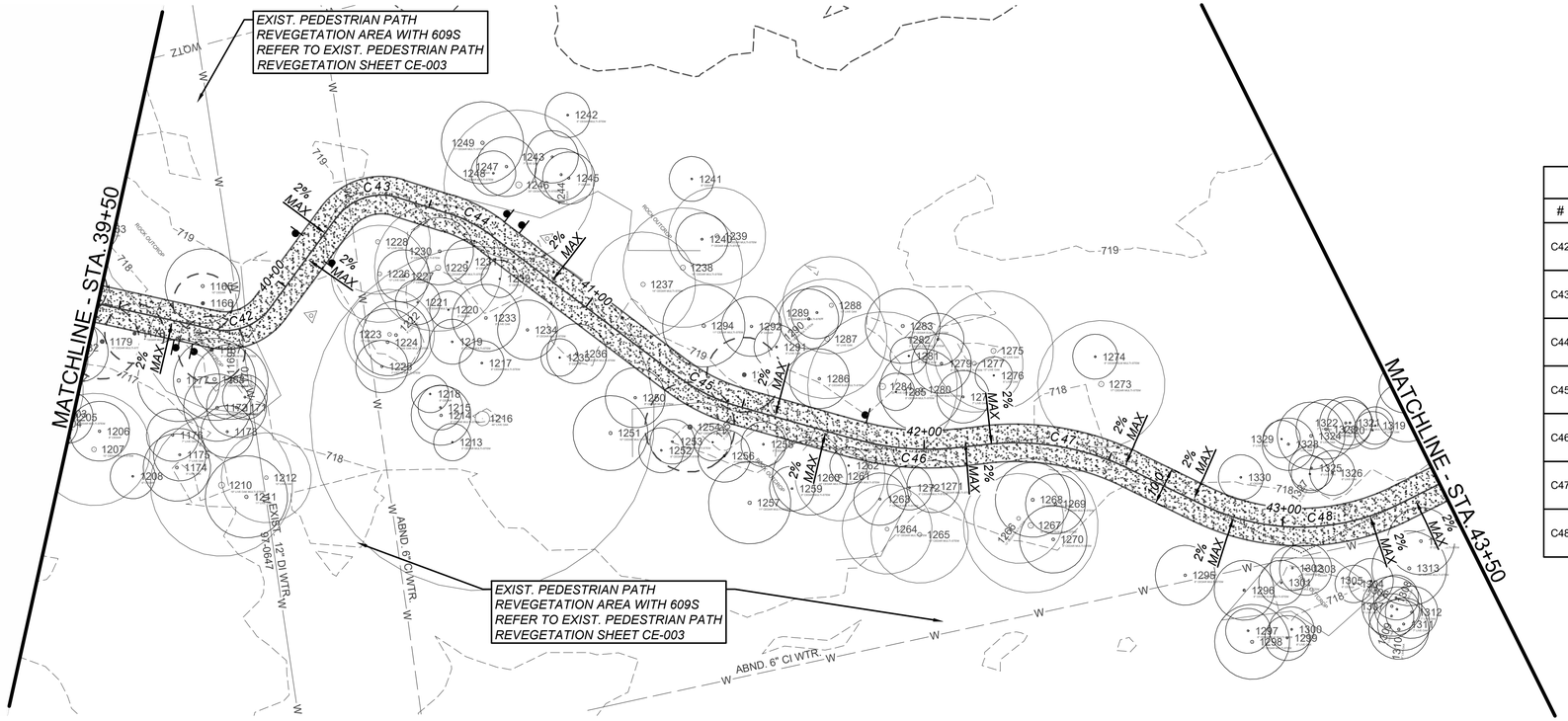
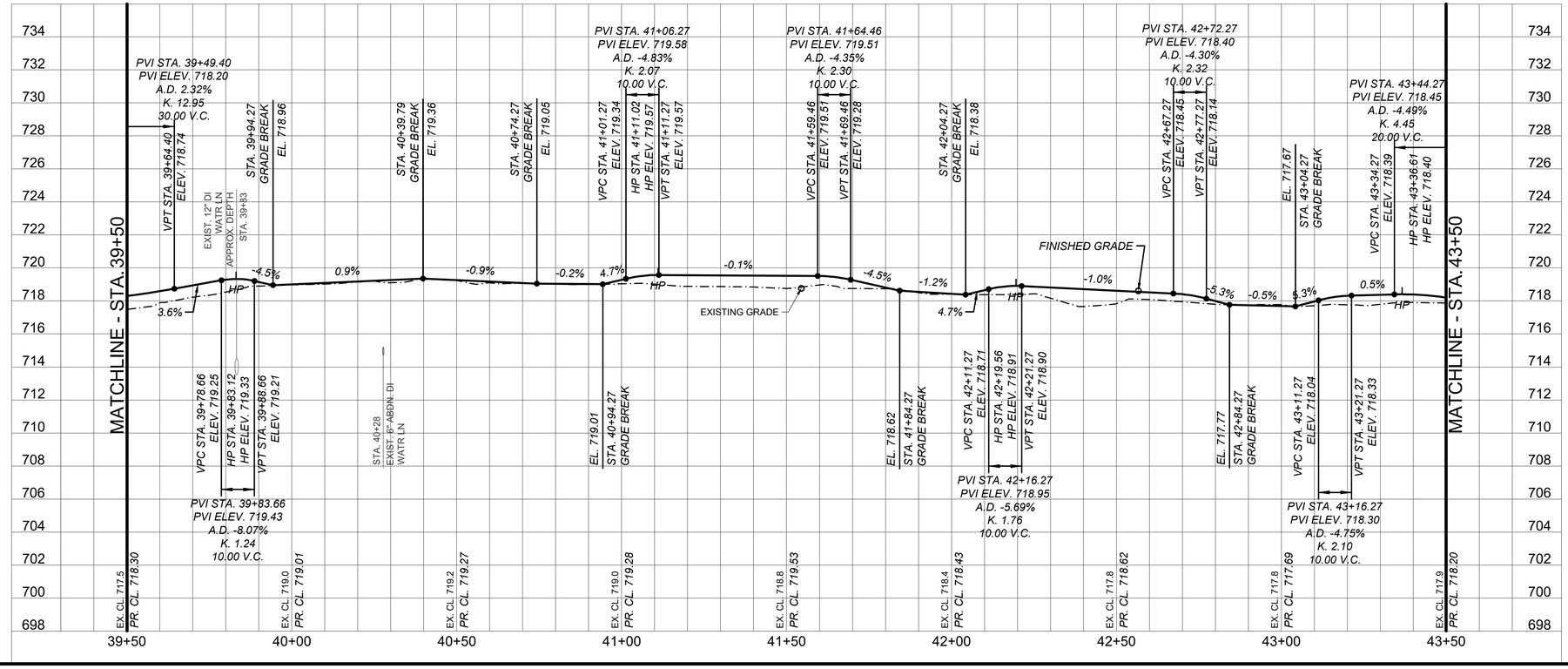


CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C42	15.00	17.32	N19° 10' 50"E	STA. 39+75.76 N. 10054546.25 E. 3087958.38	STA. 39+93.08 N. 10054561.71 E. 3087963.76
C43	15.00	18.66	N21° 45' 04"E	STA. 40+22.76 N. 10054590.52 E. 3087956.63	STA. 40+41.42 N. 10054606.76 E. 3087963.11
C44	40.00	13.58	N67° 07' 17"E	STA. 40+55.15 N. 10054614.16 E. 3087974.67	STA. 40+68.73 N. 10054619.41 E. 3087987.13
C45	50.00	18.62	N66° 10' 44"E	STA. 41+30.53 N. 10054633.47 E. 3088047.30	STA. 41+49.15 N. 10054640.95 E. 3088064.24
C46	70.00	27.09	N44° 25' 17"E	STA. 41+81.81 N. 10054659.45 E. 3088091.16	STA. 42+08.91 N. 10054678.68 E. 3088110.01
C47	70.00	39.64	N49° 33' 21"E	STA. 42+16.48 N. 10054685.00 E. 3088114.17	STA. 42+56.12 N. 10054710.37 E. 3088143.93
C48	60.00	54.84	N39° 35' 37"E	STA. 42+77.54 N. 10054719.17 E. 3088163.47	STA. 43+32.38 N. 10054759.97 E. 3088197.22



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 39+50 - STA. 43+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-209 | 34 OF 89

C:\USERS\YAMAGU\CHRICITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWGPRODUCTION_FILES\DWG\VTRC-CRD-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
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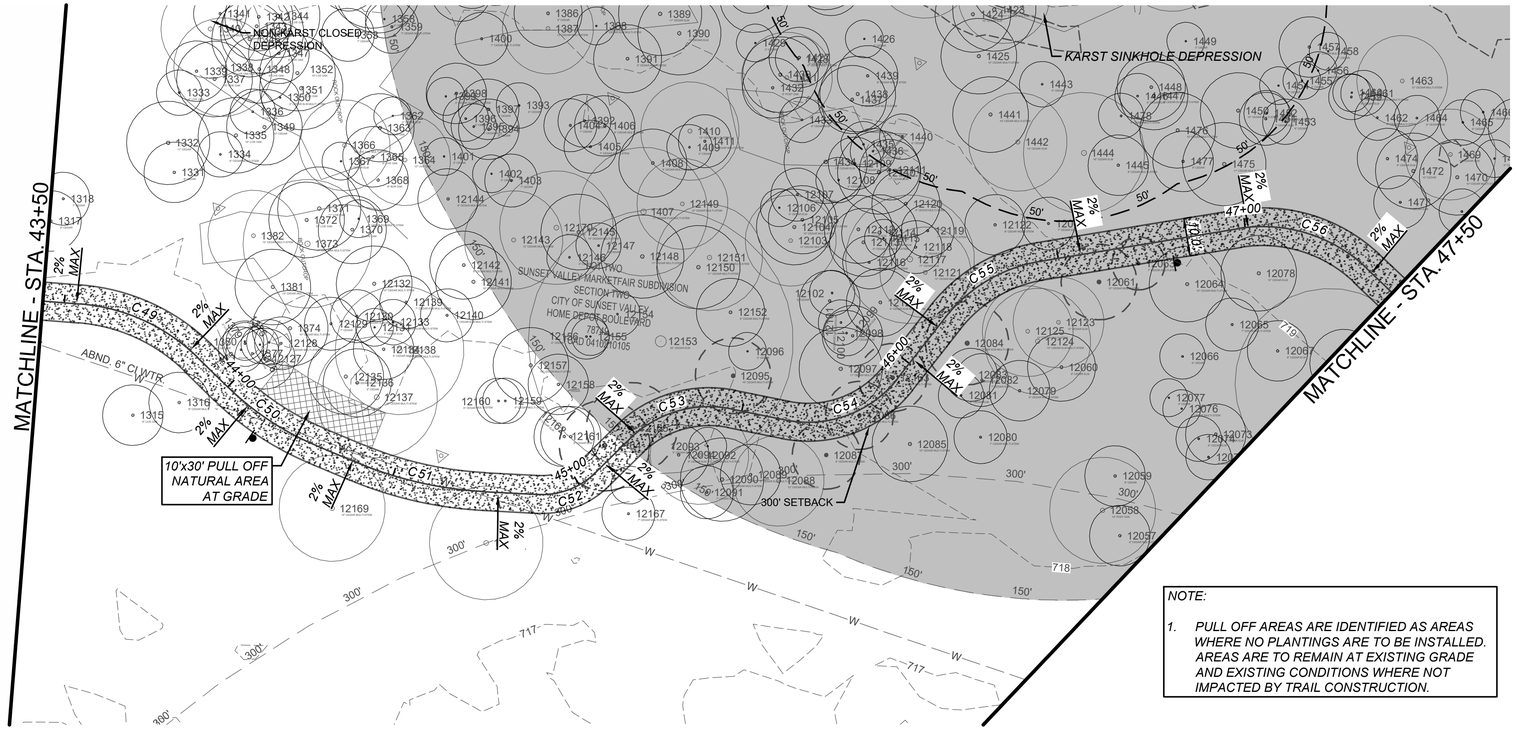

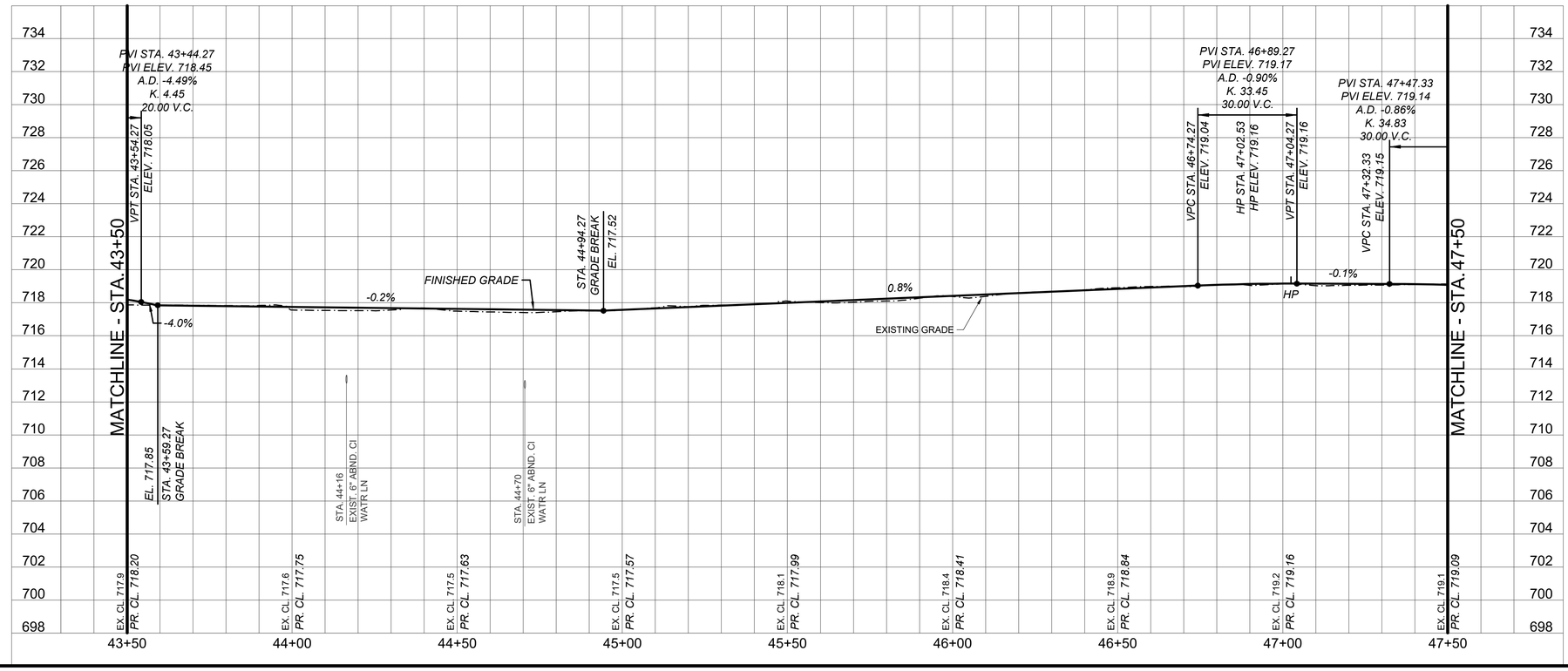

CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C49	50.00	34.83	N33° 22' 00"E	STA. 43+54.09 N. 10054781.09 E. 3088202.26	STA. 43+88.93 N. 10054809.59 E. 3088221.03
C50	75.00	28.39	N42° 28' 47"E	STA. 43+99.77 N. 10054816.07 E. 3088229.73	STA. 44+28.16 N. 10054836.88 E. 3088248.79
C51	100.00	34.52	N21° 44' 46"E	STA. 44+39.83 N. 10054846.82 E. 3088254.91	STA. 44+74.35 N. 10054878.73 E. 3088267.63
C52	20.00	16.53	N11° 49' 06"W	STA. 44+88.77 N. 10054892.83 E. 3088270.59	STA. 45+05.30 N. 10054908.55 E. 3088267.30
C53	30.00	29.23	N07° 34' 40"W	STA. 45+17.99 N. 10054918.89 E. 3088259.93	STA. 45+47.23 N. 10054946.74 E. 3088256.23
C54	30.00	33.18	N11° 20' 34"W	STA. 45+61.71 N. 10054960.32 E. 3088261.26	STA. 45+94.89 N. 10054991.21 E. 3088255.07
C55	40.00	29.71	N21° 44' 53"W	STA. 46+15.37 N. 10055006.19 E. 3088241.09	STA. 46+45.08 N. 10055033.15 E. 3088230.33
C56	40.00	36.87	N25° 55' 59"E	STA. 46+98.00 N. 10055086.07 E. 3088229.89	STA. 47+34.87 N. 10055118.06 E. 3088245.45

NOTE:

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REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 43+50 - STA. 47+50

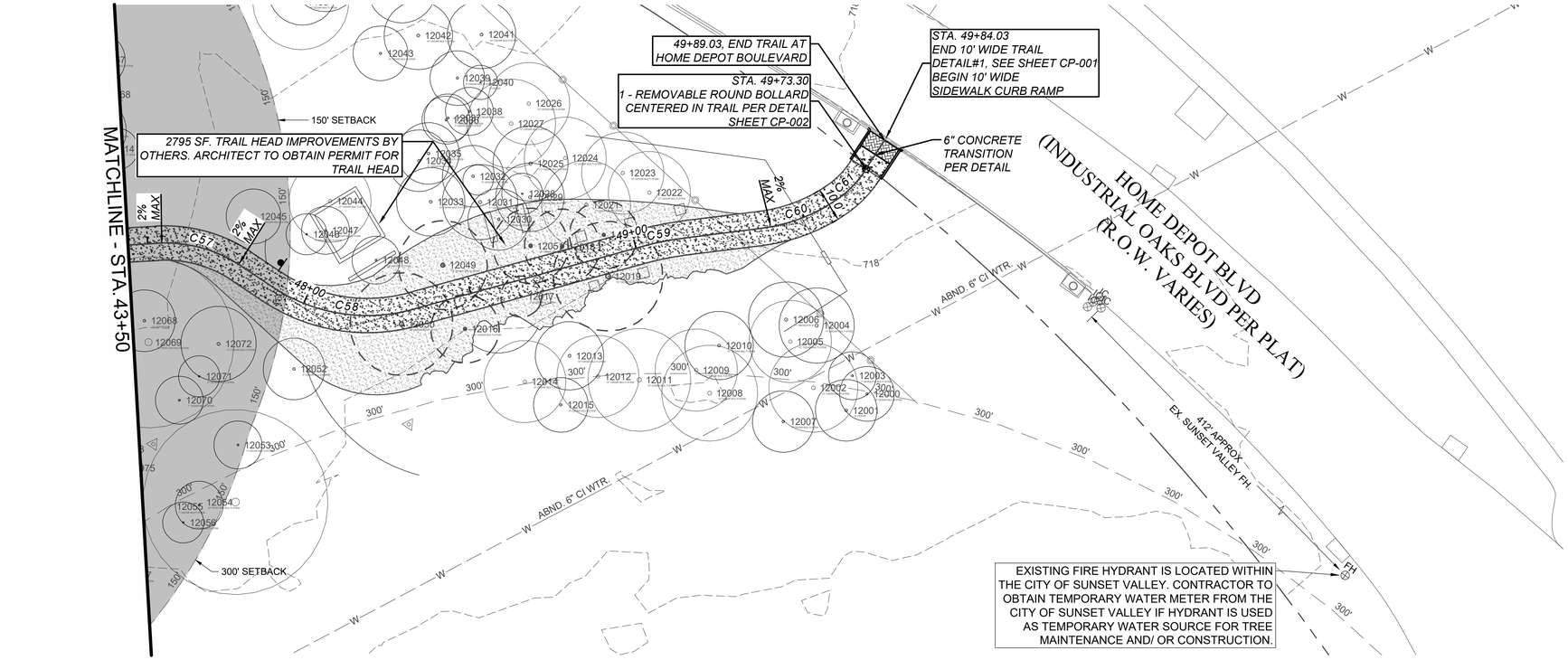
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

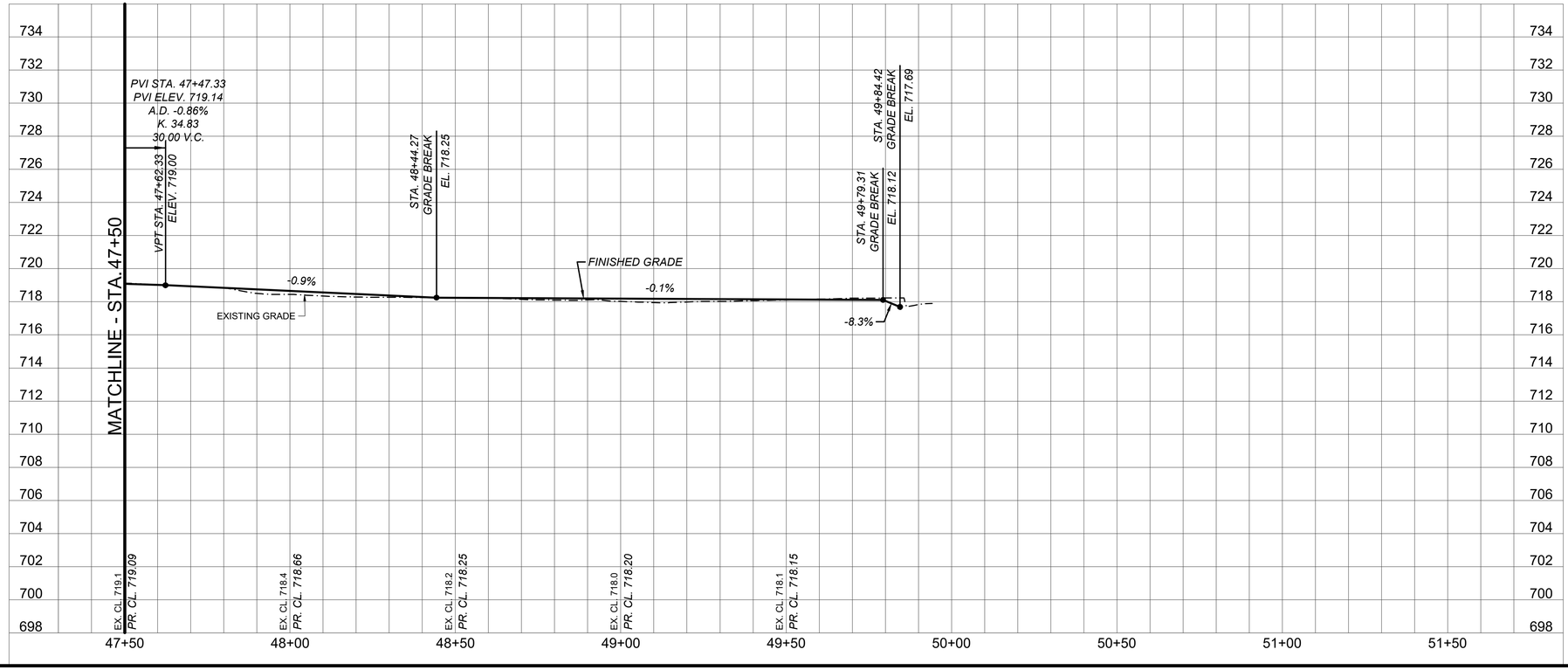
GP-2020-0085.PW

CP-210 | 35 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-CRD-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
YAMAGUCHI, RIA
7/29/2021 2:17 PM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C57	40.00	25.85	N70° 51' 03"E	STA. 47+52.89 N. 10055129.07 E. 3088259.72	STA. 47+78.73 N. 10055137.41 E. 3088283.71
C58	50.00	42.87	N64° 48' 00"E	STA. 47+89.45 N. 10055137.53 E. 3088294.43	STA. 48+32.32 N. 10055155.22 E. 3088332.04
C59	100.00	14.29	N44° 19' 54"E	STA. 49+00.98 N. 10055207.64 E. 3088376.39	STA. 49+15.28 N. 10055217.85 E. 3088386.37
C60	50.00	22.40	N35° 35' 26"E	STA. 49+37.00 N. 10055232.27 E. 3088402.63	STA. 49+59.40 N. 10055250.34 E. 3088415.56
C61	30.00	12.57	N10° 45' 14"E	STA. 49+59.99 N. 10055250.87 E. 3088415.78	STA. 49+72.55 N. 10055263.13 E. 3088418.11



REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL PLAN & PROFILE
STA. 47+50 TO END

CITY OF AUSTIN
FOUNDED 1839

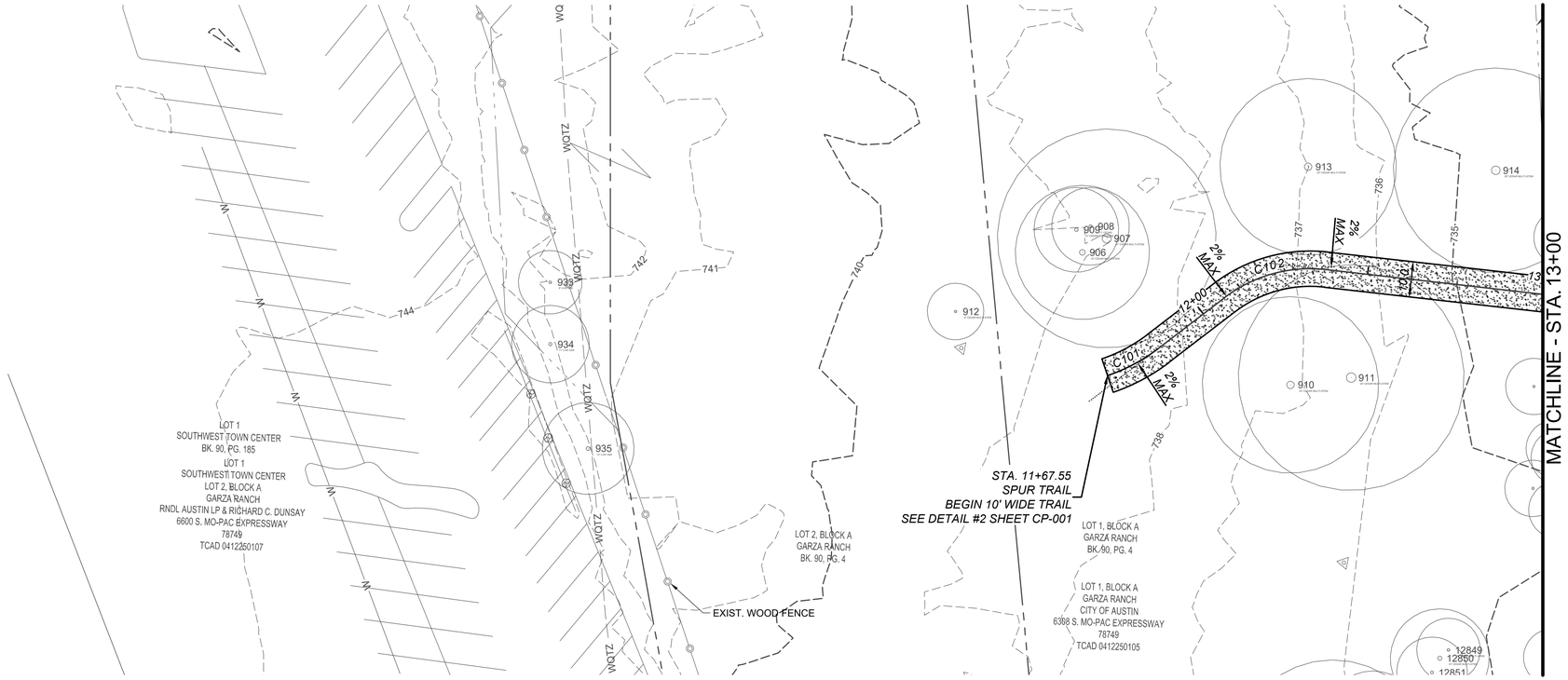
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

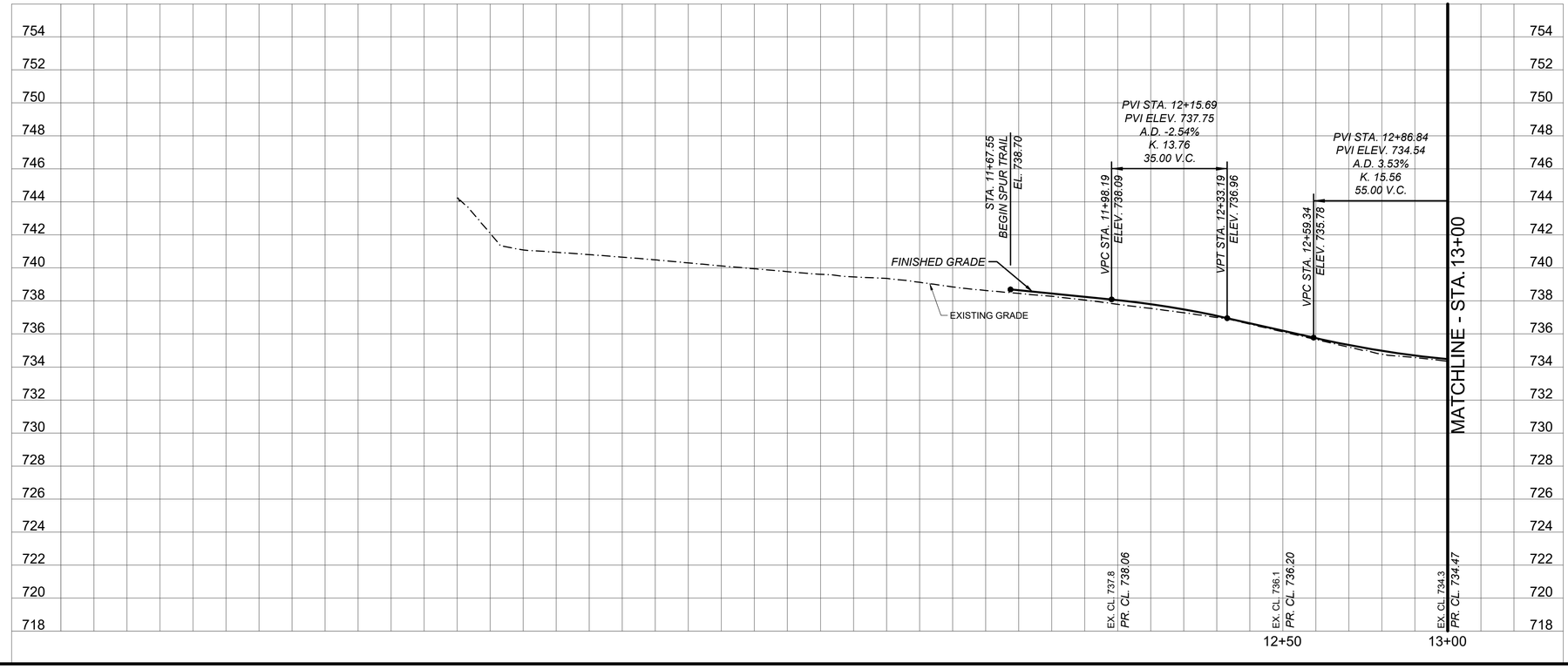
GP-2020-0085.PW

CP-211 | 36 OF 89

C:\USERS\YAMAGUCHIRC\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-RD-PLPR02.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
7/27/2021 10:28 AM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C101	50.00	16.30	N21° 19' 50"E	STA. 11+67.55 N. 10053999.65 E. 3085444.15	STA. 11+83.85 N. 10054014.76 E. 3085450.05
C102	40.00	30.65	N33° 56' 35"E	STA. 12+07.51 N. 10054037.91 E. 3085454.97	STA. 12+38.16 N. 10054062.72 E. 3085471.66



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LIC. # 93745 ON 7/27/2021

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

SPUR TRAIL LATERAL PLAN & PROFILE
BEGIN - STA. 13+00

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-212 | 37 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-CRD-PLPR03 DWG, YAMAGUCHI, RIA
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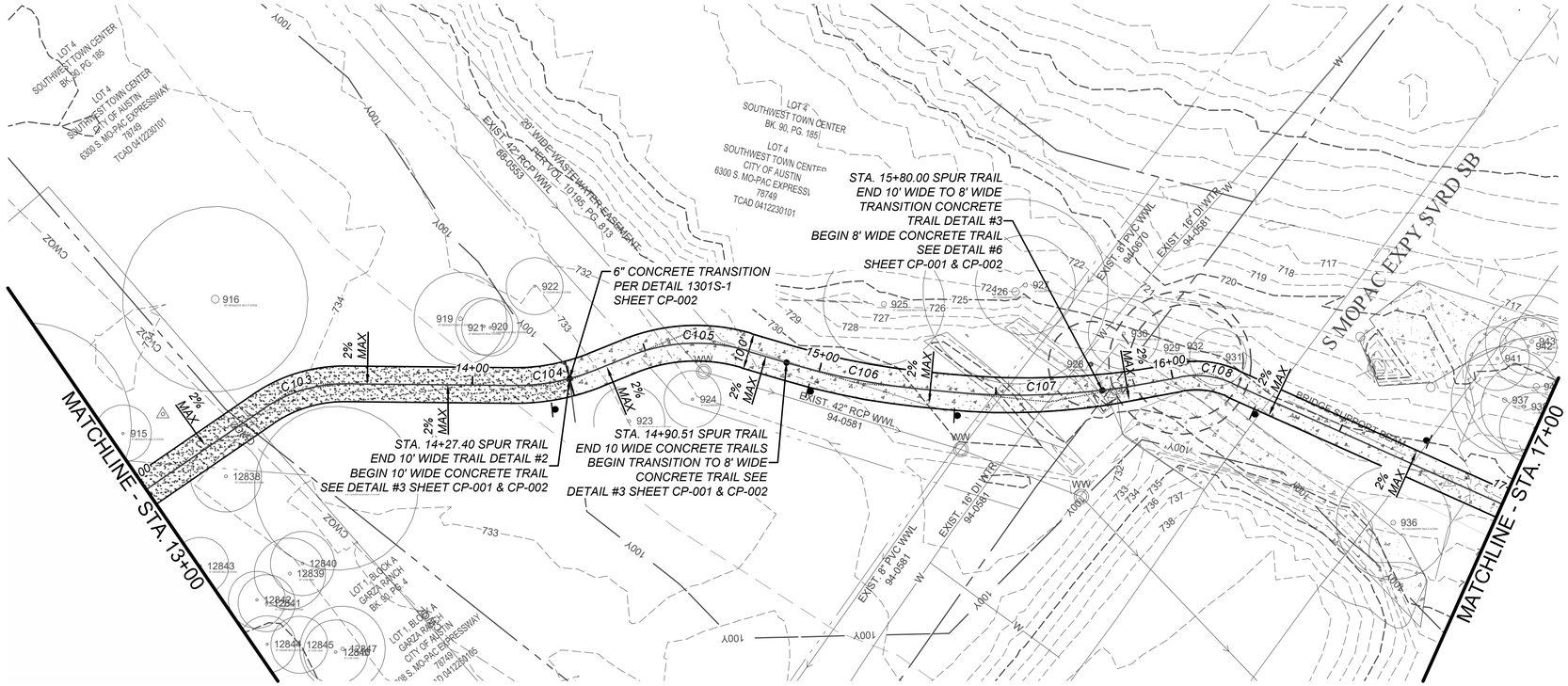

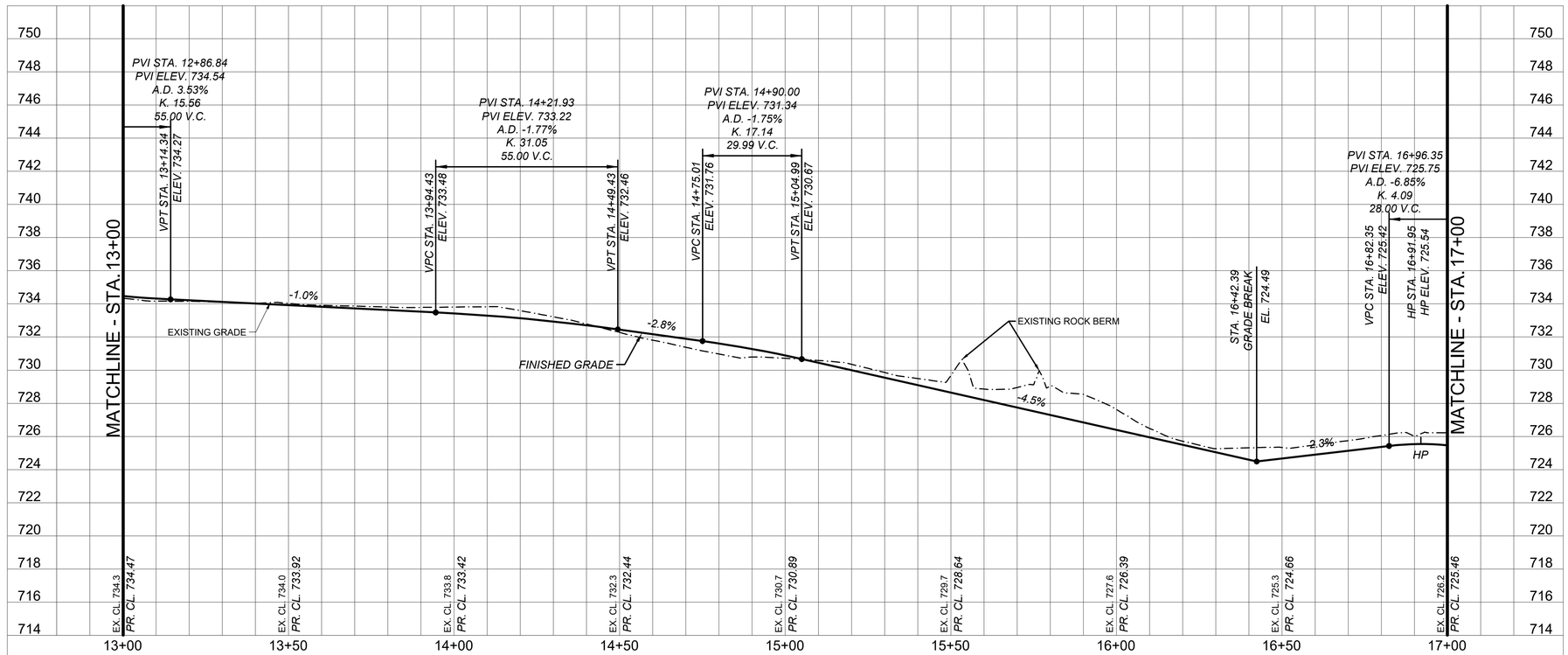

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C103	40.00	24.45	N73° 24' 06"E	STA. 13+39.88 N. 10054119.75 E. 3085555.89	STA. 13+64.32 N. 10054126.63 E. 3085578.95
C104	60.00	23.42	N79° 43' 44"E	STA. 14+11.41 N. 10054125.88 E. 3085626.03	STA. 14+34.83 N. 10054130.03 E. 3085648.93
C105	50.00	33.39	N87° 40' 44"E	STA. 14+45.35 N. 10054133.88 E. 3085658.73	STA. 14+78.75 N. 10054135.21 E. 3085691.47
C106	200.00	37.53	S78° 33' 54"E	STA. 14+91.43 N. 10054131.54 E. 3085703.61	STA. 15+28.96 N. 10054124.11 E. 3085740.35
C107	200.00	57.13	N87° 52' 32"E	STA. 15+36.36 N. 10054123.33 E. 3085747.71	STA. 15+93.49 N. 10054125.44 E. 3085804.61
C108	25.00	15.17	S82° 55' 37"E	STA. 16+01.93 N. 10054126.95 E. 3085812.90	STA. 16+17.10 N. 10054125.11 E. 3085827.73

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

SPUR TRAIL LATERAL PLAN & PROFILE
STA. 13+00 - STA. 17+00

CITY OF AUSTIN
FOUNDED 1839

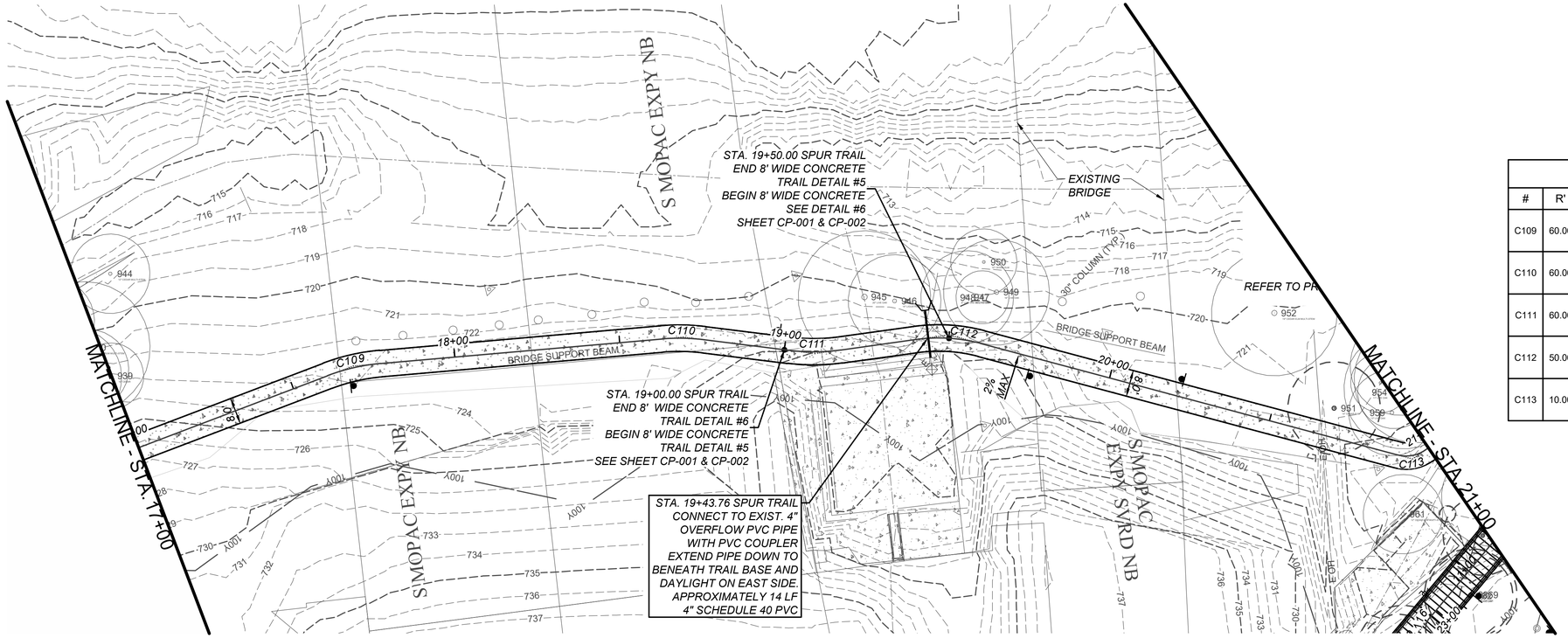
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-213 | 38 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PVID_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-RD-PLPR03.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
7/27/2021 10:31 AM



CURVE DATA					
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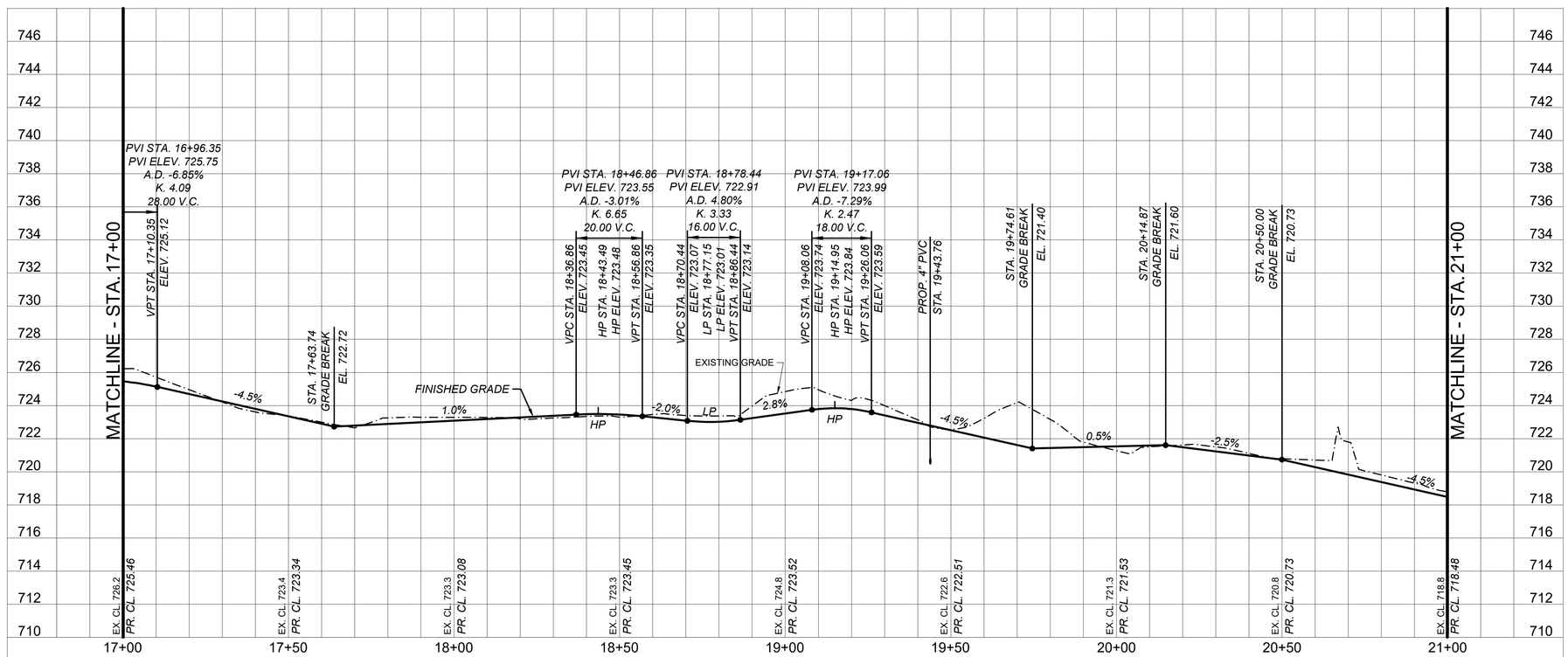
C110	60.00	12.71	S43° 40' 55"E	STA. 18+75.51 N. 10053992.45 E. 3086046.48	STA. 18+62.80 N. 10054001.62 E. 3086037.72
C111	60.00	15.74	S45° 07' 46"E	STA. 19+07.07 N. 10053960.92 E. 3086073.37	STA. 19+01.34 N. 10053971.99 E. 3086062.24
C112	50.00	19.96	S41° 12' 20"E	STA. 19+59.91 N. 10053932.12 E. 3086104.61	STA. 19+39.94 N. 10053947.04 E. 3086091.55
C113	10.00	8.61	S54° 25' 42"E	STA. 20+98.65 N. 10053814.30 E. 3086176.01	STA. 20+90.04 N. 10053816.16 E. 3086169.22



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STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
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LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

SPUR TRAIL LATERAL PLAN & PROFILE
STA. 17+00 - STA. 21+00

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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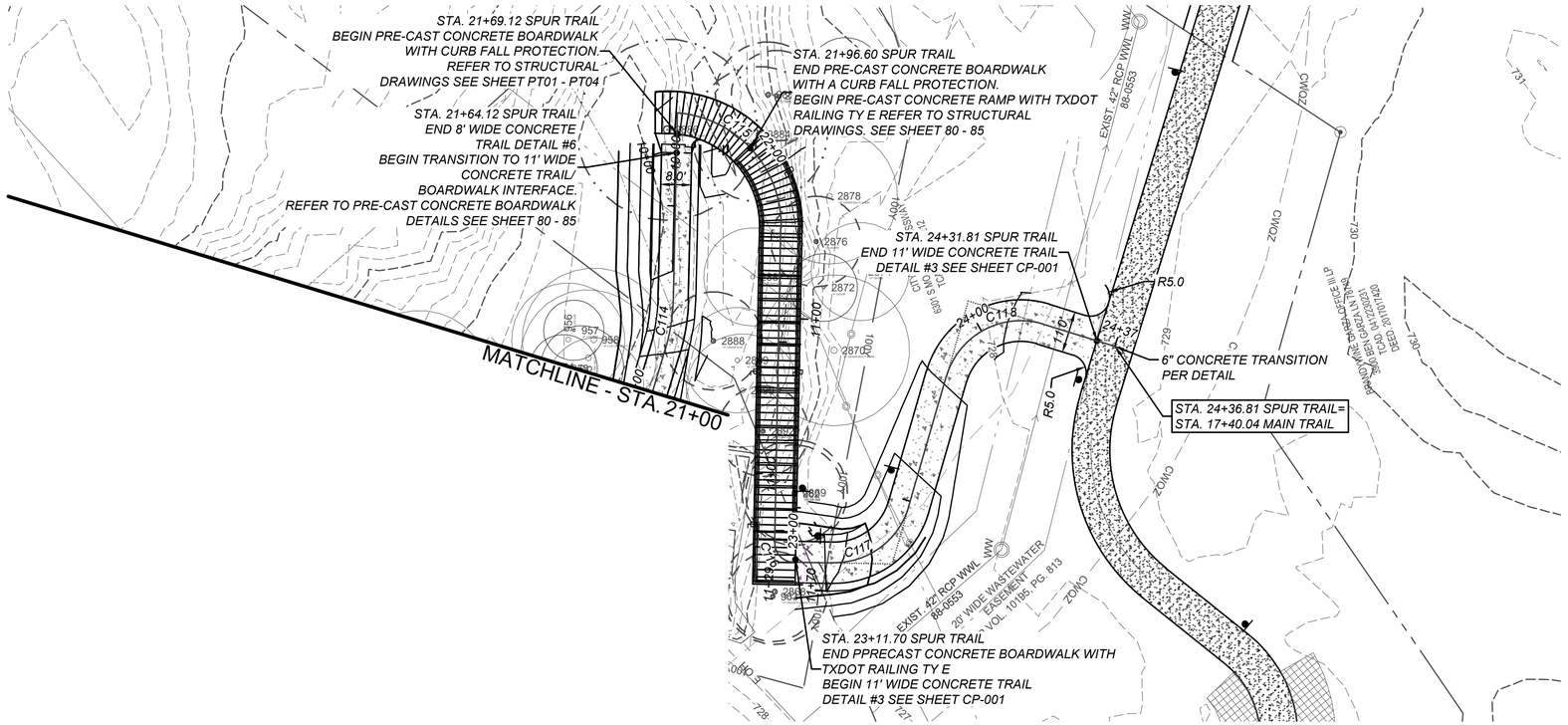
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

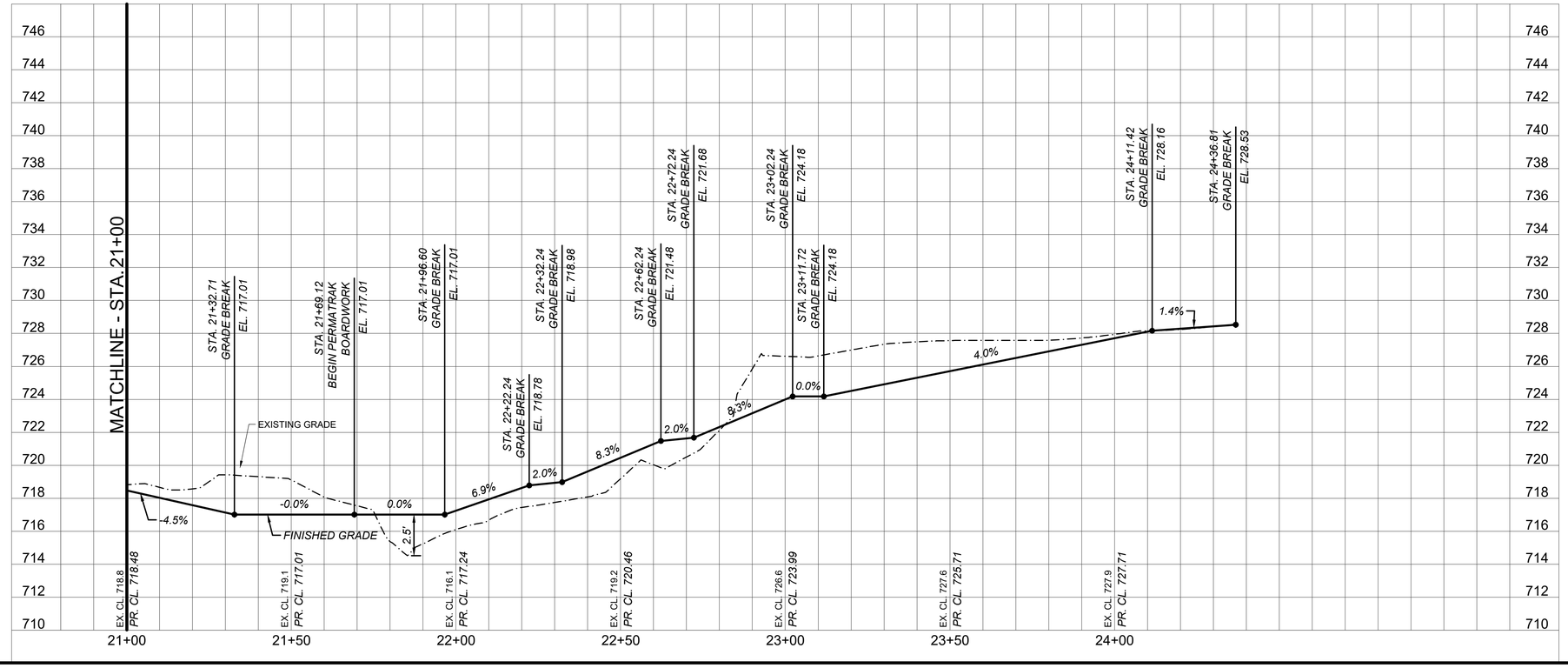
CP-214 | 39 OF 89

C:\USERS\YAMAGU\CHRICITY OF AUS TIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-RD-PI_PR03.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

7/27/2021 10:32 AM



CURVE DATA					
#	R'	L'	DIRECTION	START PT.	END PT.
C114	50.00	13.59	S86° 52' 36"E	STA. 21+11.68 N. 10053811.84 E. 3086188.80	STA. 21+25.28 N. 10053811.10 E. 3086202.33
C115	30.00	45.10	S42° 03' 41"W	STA. 21+74.68 N. 10053815.12 E. 3086251.57	STA. 22+19.78 N. 10053784.70 E. 3086224.12
C116	5.00	7.85	S40° 07' 59"W	STA. 23+03.24 N. 10053777.62 E. 3086140.97	STA. 23+11.09 N. 10053772.21 E. 3086136.41
C117	20.50	26.82	S42° 20' 25"E	STA. 23+21.59 N. 10053761.75 E. 3086137.30	STA. 23+48.40 N. 10053743.32 E. 3086154.10
C118	20.50	32.56	S34° 19' 03"E	STA. 23+84.35 N. 10053736.96 E. 3086189.48	STA. 24+16.91 N. 10053712.81 E. 3086205.97



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

SPUR TRAIL LATERAL PLAN & PROFILE
STA. 21+00 - END

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-215 | 40 OF 89

C:\USERS\YAMAGUCH\RCITY OF AUSTIN\PWD-ESD-TEAM 1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-CRD-PLP803 DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
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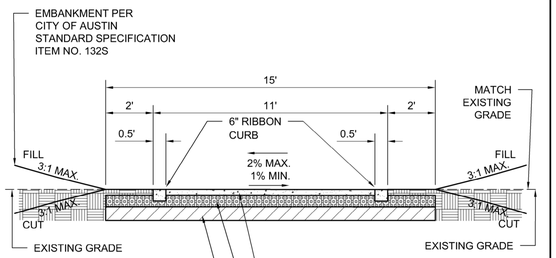
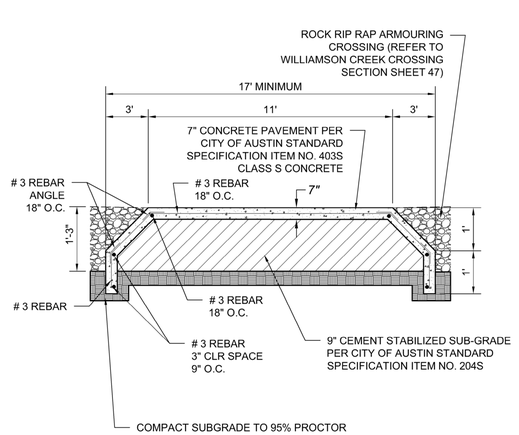


MAIN TRAIL
STA. 23+60.00 - STA. 32+00.00
STA. 37+25.00 - STA. 38+87.54

NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT 10-FEET MAXIMUM INTERVALS USING EARLY-ENTRY SAW CUTTING OR A PRE-FORMED CONTRACTION JOINT MATERIAL (ZIP STRIP OR APPROVED EQUIVALENT) FOR RIBBON CURB.
2. RECOMMENDED SLIP FORM PAVER FOR CONCRETE AND A RECLAIMER FOR THE SUB-GRADE MIXING.

	11 FT WIDE TRAIL WITH RIBBON CURB DETAIL	
		1



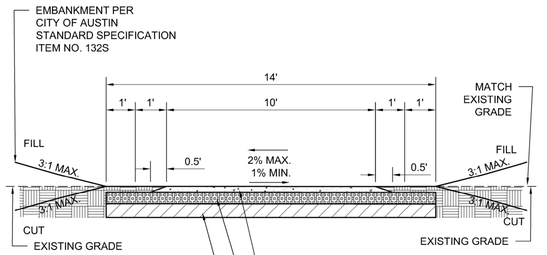
NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT 10-FEET MAXIMUM INTERVALS USING EARLY-ENTRY SAW CUTTING OR A PRE-FORMED CONTRACTION JOINT MATERIAL (ZIP STRIP OR APPROVED EQUIVALENT).
2. THE NEW JOINT FORMED SHALL BE BROOM FINISHED OVER THE TOP OF THE JOINT.
3. RECOMMENDED SLIP FORM PAVER AND A RECLAIMER FOR THE SUB-GRADE MIXING.
4. IF ROCK IS ENCOUNTERED FOOTING TO BE DOWELED INTO BED ROCK W/ #5 REBAR DOWELED 8" INTO LIMESTONE BED ROCK ON 8" CENTER.

MAIN TRAIL
STA. 34+00.00 - STA. 34+40.00

11' WIDE CREEK CROSSING SECTION

N.T.S

	CREEK CROSSING TRAIL SECTION DETAIL	
		4

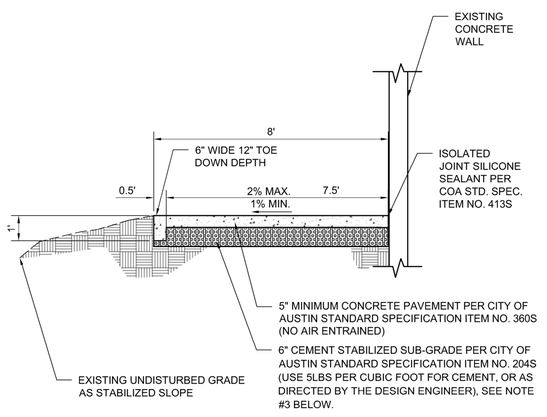


MAIN TRAIL
STA. 15+63.73 - STA. 23+60.00
STA. 38+87.54 - STA. 49+84.03

SPUR TRAIL
STA. 10+00.00 - STA. 14+27.00

NOTES:
1. RECOMMENDED SLIP FORM PAVER FOR CONCRETE AND A RECLAIMER FOR THE SUB-GRADE MIXING.

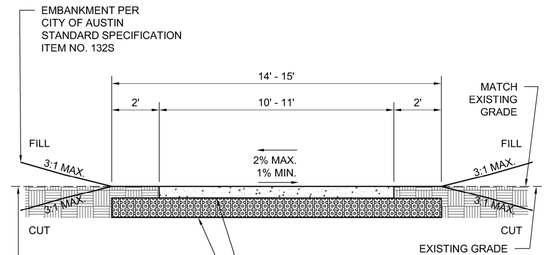
	10 FT WIDE TRAIL DETAIL	
		2



SPUR TRAIL
STA. 19+00.00 - STA. 19+50.00

NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT 10-FEET MAXIMUM INTERVALS USING EARLY-ENTRY SAW CUTTING OR A PRE-FORMED CONTRACTION JOINT MATERIAL (ZIP STRIP OR APPROVED EQUIVALENT)
2. RECOMMENDED SLIP FORM PAVER FOR CONCRETE AND A RECLAIMER FOR THE SUB-GRADE MIXING.
3. LIME STABILIZED SUB-GRADE (C.O.A. ITEM NO. 203S) COULD BE USED IN-PLACE OF CEMENT STABILIZED SUB-GRADE, AS SHOWN ON THE DRAWINGS, AT THE DISCRETION OF THE ENGINEER DEPENDING ON THE PROJECT LOCATION AND SOIL CONDITIONS. THE DEPTH OF THE SUB-GRADE CAN BE MODIFIED DEPENDING ON THE GEOTECHNICAL ENGINEERING REPORT, AT THE DISCRETION OF THE ENGINEER.

	8 FT WIDE CONCRETE TRAIL DETAIL	
		5



MAIN TRAIL
STA. 10+00.00 - STA. 15+63.73
STA. 32+00.00 - STA. 34+00.00
STA. 34+40.00 - STA. 37+25.00

SPUR TRAIL
STA. 14+27.00 - STA. 15+80.00
STA. 23+20.42 - STA. 23+80.00

NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT 10-FEET MAXIMUM INTERVALS USING EARLY-ENTRY SAW CUTTING OR A PRE-FORMED CONTRACTION JOINT MATERIAL (ZIP STRIP OR APPROVED EQUIVALENT)
2. RECOMMENDED SLIP FORM PAVER FOR CONCRETE AND A RECLAIMER FOR THE SUB-GRADE MIXING.
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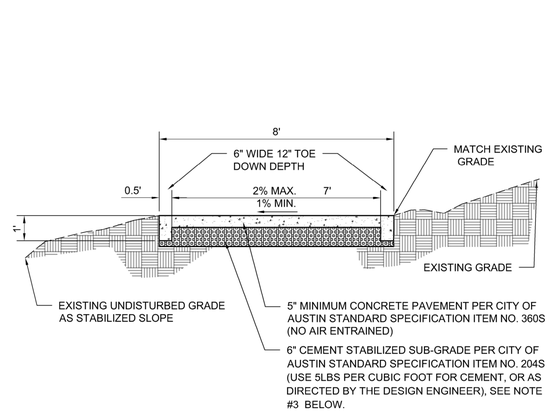
4. IF USING A FILL SECTION WITH 3:1 MAXIMUM SIDE SLOPES, A SWALE (U-SHAPED) SHALL BE PROVIDED ON EACH SIDE OF THE TRAIL TO PREVENT WATER FROM ENTERING INTO THE SUB-GRADE SECTION.

	10 FT - 11 FT WIDE CONCRETE TRAIL DETAIL	
		3



SPUR TRAIL
STA. 15+80.00 - STA. 19+00.00
STA. 19+50.0 - STA. 21+70.36

NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT 10-FEET MAXIMUM INTERVALS USING EARLY-ENTRY SAW CUTTING OR A PRE-FORMED CONTRACTION JOINT MATERIAL (ZIP STRIP OR APPROVED EQUIVALENT)
2. RECOMMENDED SLIP FORM PAVER FOR CONCRETE AND A RECLAIMER FOR THE SUB-GRADE MIXING.
3. LIME STABILIZED SUB-GRADE (C.O.A. ITEM NO. 203S) COULD BE USED IN-PLACE OF CEMENT STABILIZED SUB-GRADE, AS SHOWN ON THE DRAWINGS, AT THE DISCRETION OF THE ENGINEER DEPENDING ON THE PROJECT LOCATION AND SOIL CONDITIONS. THE DEPTH OF THE SUB-GRADE CAN BE MODIFIED DEPENDING ON THE GEOTECHNICAL ENGINEERING REPORT, AT THE DISCRETION OF THE ENGINEER.

	8 FT WIDE CONCRETE TRAIL DETAIL	
		6

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LOPEZ, RUBEN

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DETAIL SHEETS (SHEET 1 OF 3)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 10 20
HORIZONTAL SCALE IN FEET
0 5 10
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-001 | 41 OF 89

C:\USERS\LOPEZRU\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DVG\PRODUCTION_FILES\DVGVICTR-C-RD-TXSEC.DWG, ---, COA_PLOT_STYLES.STB

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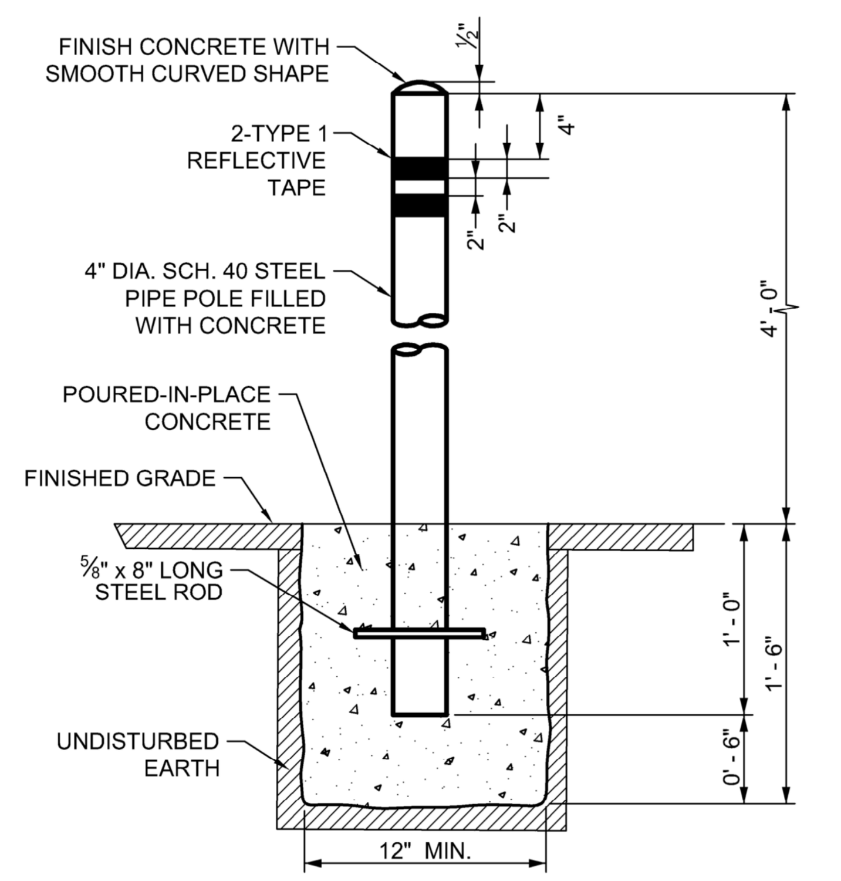
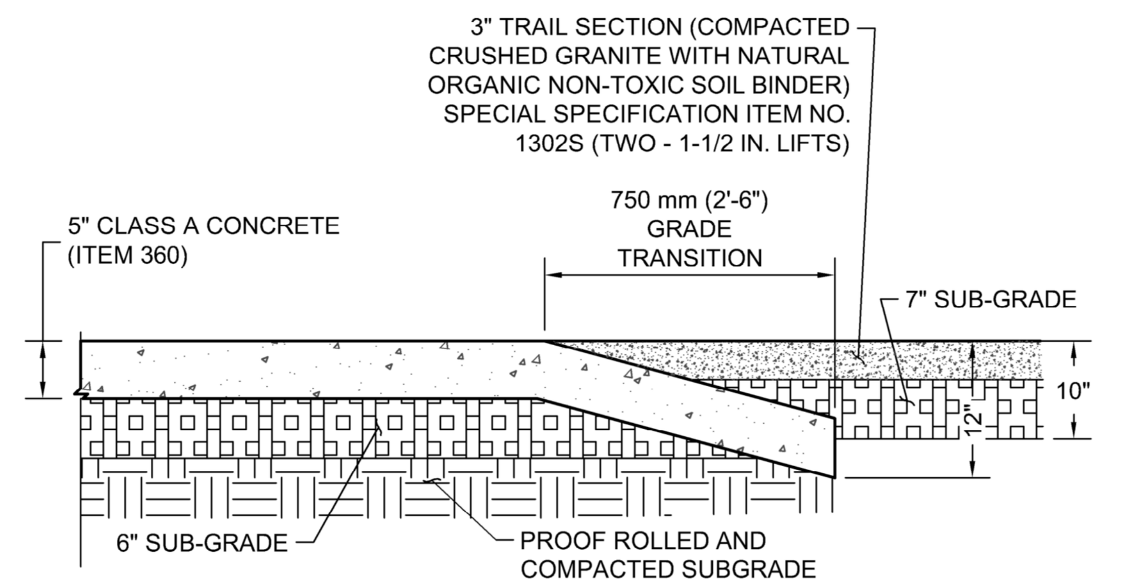


NOTES:

1. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE 3000 PSI, CLASS A, PER 403S.
2. PAINT BOLLARD POLE WITH ONE COAT OF PRIMER AND TWO COATS OF "TRAFFIC YELLOW" PAINT ACCORDING 871S TYPEII.

STEEL BOLLARD POLE

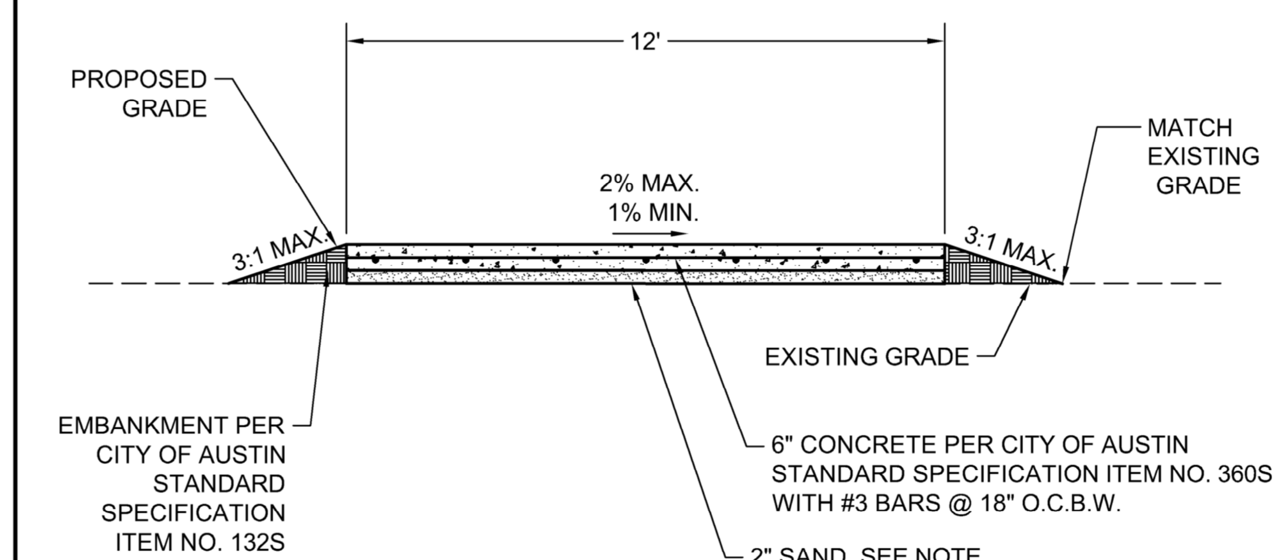


6" CONCRETE TRANSITION

NOTES:

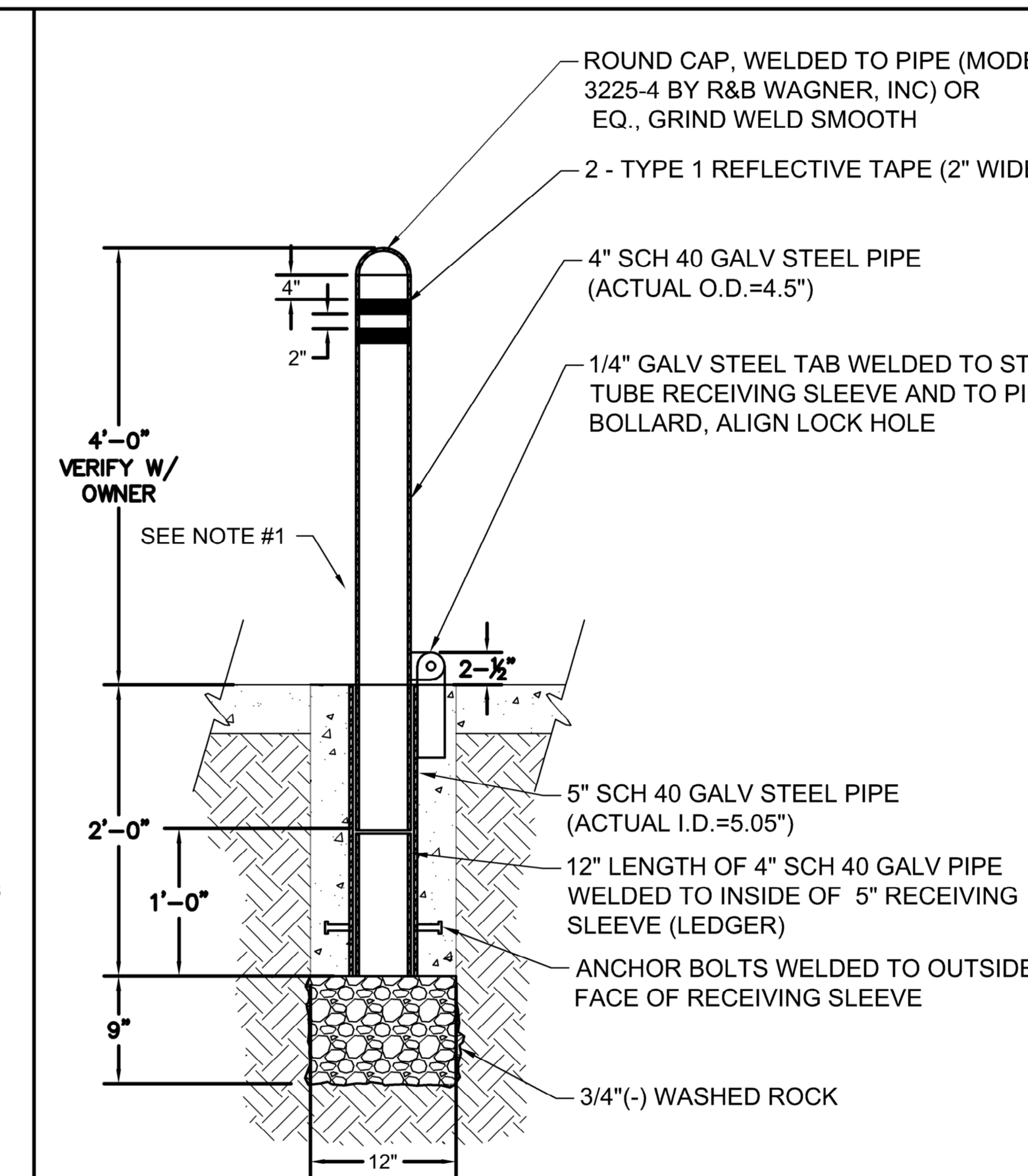
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ENGINEERING DRAWINGS.
2. EXISTING TREES, PROPERTY AND PUBLIC RIGHT-OF WAYS SHALL BE PROTECTED FROM DAMAGE BY TRUCKS AND/OR EQUIPMENT.
3. THE GRANITE GRAVEL WEARING COURSE SHALL BE 100 mm (4"), COMPACTED.
4. THE WEARING MATERIAL SHALL BE COMPRISED OF UNWASHED GRANITE AGGREGATE AND RED CLAY FINES THAT CONFORM TO STANDARD SPECIFICATION ITEM SECTION 1301S.3, "MATERIAL".
5. UPON COMPLETION OF TRAIL CONSTRUCTION, ALL GRANITE GRAVEL SHALL BE REMOVED FROM ADJOINING HARD SURFACES (I.E. RETAINING CURB/WALL, SIDEWALKS, RUBBER SAFETY SURFACES, PLAYSCAPE DECKS OR RAMPS).
6. ALL ADJACENT HARD SURFACES, SUCH AS CURBS OR WALKS, SHALL BE INSTALLED PRIOR TO INSTALLATION OF GRANITE GRAVEL.

CONCRETE TRANSITION



NOTE:
A SAND CUSHION OF A MINIMUM THICKNESS OF 2 INCHES (50 MM) OVER THE ROOTS, COMPOSED OF COARSE SAND, SHALL BE SPREAD, WETTED THOROUGHLY, TAMPED AND LEVELED. THE SAND CUSHION SHALL BE MOIST AT THE TIME THE PORTLAND CEMENT IS PLACED.

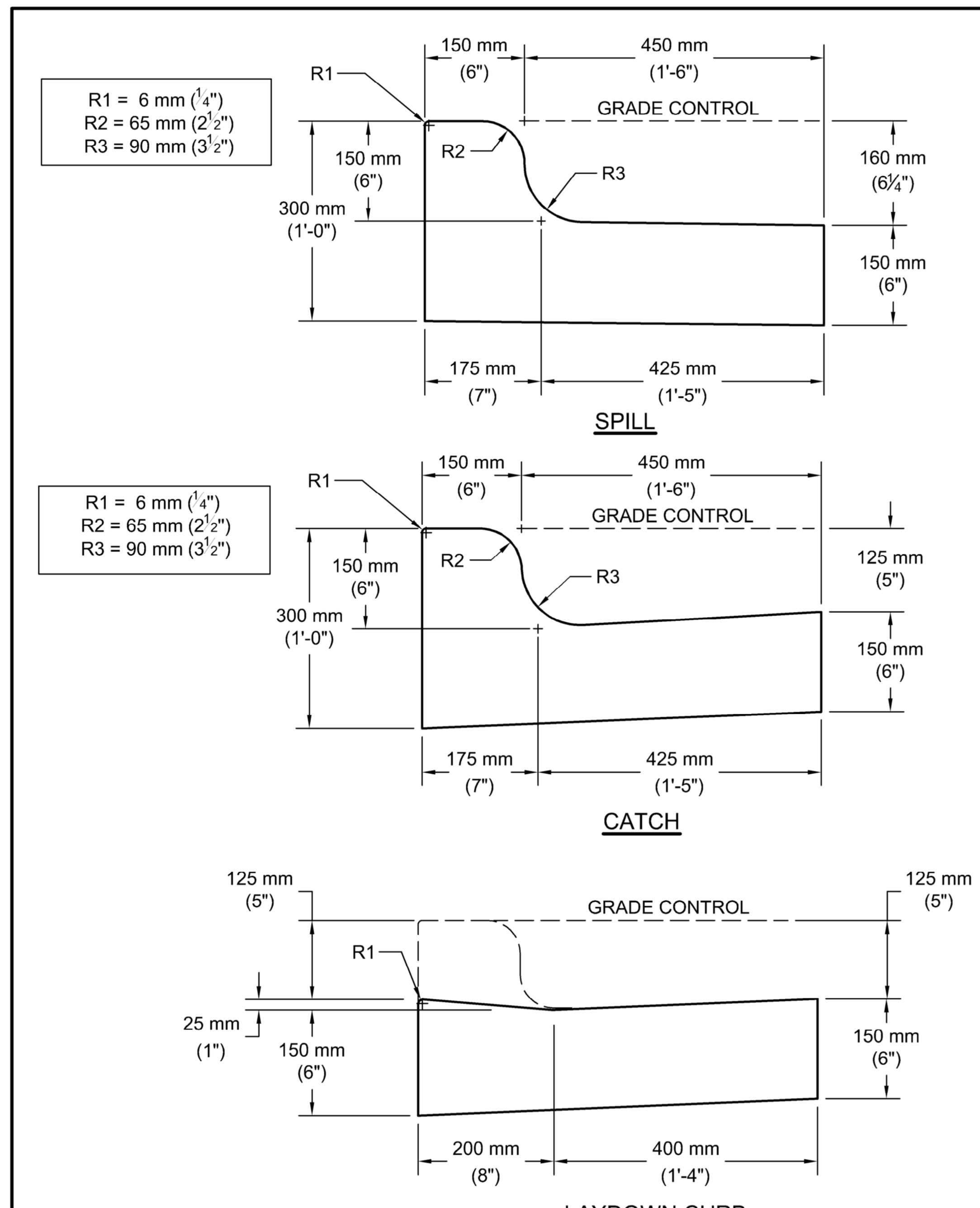
SAND BRIDGING



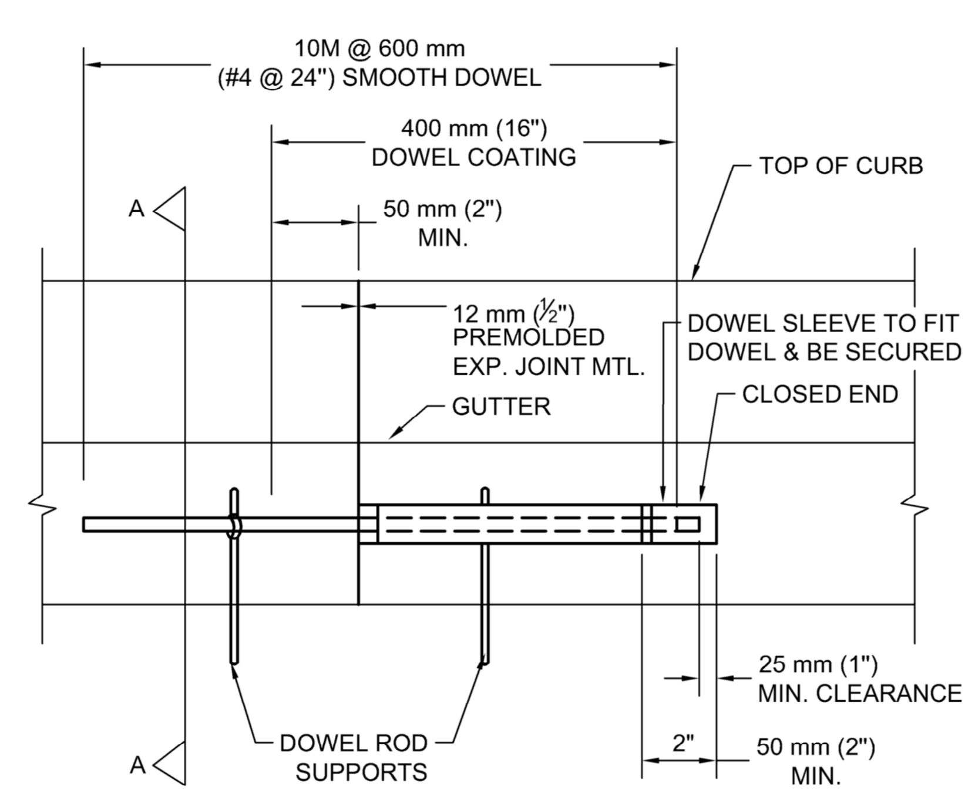
NOTES:

1. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI, CLASS A, PER 403S.
2. PAINT BOLLARD POLE WITH ONE COAT OF PRIMER AND TWO COATS OF "TRAFFIC YELLOW" PAINT ACCORDING 871S TYPEII.

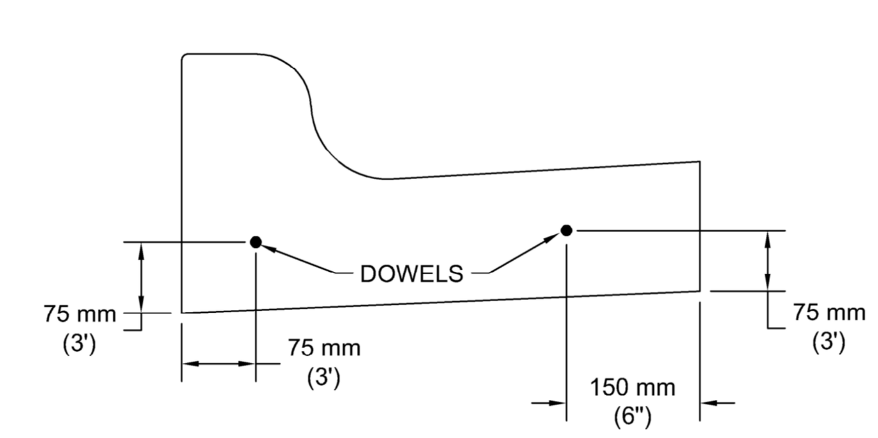
REMOVABLE ROUND BOLLARD



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CURB AND GUTTER SECTION	
RECORD COPY SIGNED BY LINO RIVERA *09/29/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-1 1 OF 1



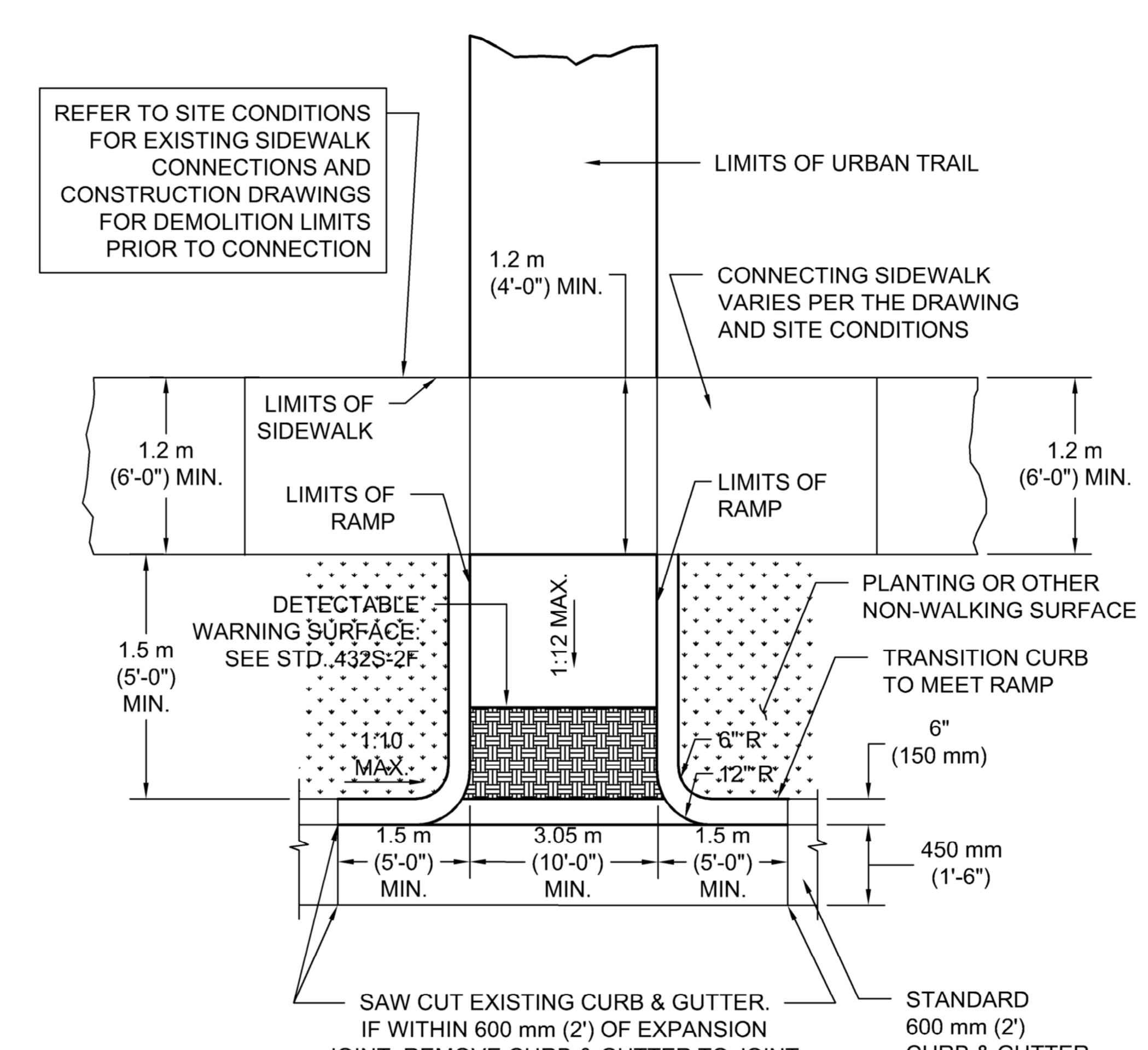
CURB EXPANSION JOINT DOWEL DETAIL



SECTION A-A

SEE STANDARD 430S-1 FOR TYPICAL CURB AND GUTTER SECTIONS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CURB EXPANSION JOINT DOWEL DETAIL	
RECORD COPY SIGNED BY LINO RIVERA *9/29/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-3 1 OF 1



10 FT WIDE SIDEWALK CURB RAMP

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LOPEZ, RUBEN

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DETAIL SHEETS (SHEET 2 OF 3)

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 10 20
HORIZONTAL SCALE IN FEET
0 5 10
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-002 42 OF 89

C:\USERS\LOPEZRU\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-RD-TXSEC.DWG, ----, COA_PLOT_STYLES.STB

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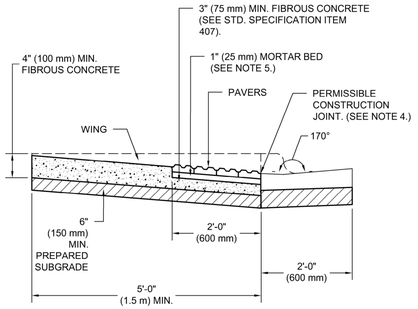

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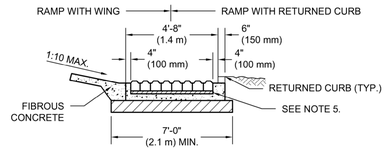
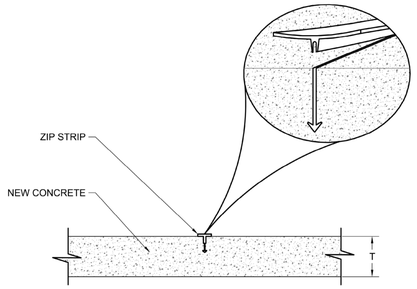


FRONT END VIEW

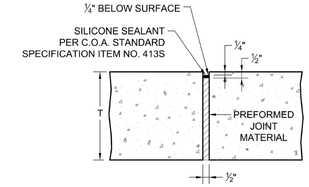
GENERAL NOTES:

1. THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION ON CITY PROPERTY AND EASEMENT AREAS ONLY.
2. PAVERS ARE REQUIRED FOR ALL CURB RAMP INSTALLATIONS.
3. PAVERS WILL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" (23 mm), A NOMINAL HEIGHT OF 0.2" (5 mm) AND A NOMINAL CENTER TO CENTER SPACING OF 2.35" (60 mm) AND SHALL CONSTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (Re: ADAAG SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. PAVER PATTERN SHALL BE BASKET WEAVE UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
4. TYPICAL SIDEWALK WIDTHS AND CURB RADII ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE TRANSPORTATION CRITERIA MANUAL FOR SIDEWALK WIDTHS, CURB RADII AND CURB BASIS.
5. THE PERMISSIBLE CONSTRUCTION JOINT BETWEEN THE PAVERS AND THE ADJOINING SURFACE SHALL BE LIMITED TO ¼" (6 mm) JOINT SIZE. GAPS LARGER THAN ¼" (6 mm) MUST BE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. ALL JOINTS BETWEEN BRICKS AND ADJOINING SURFACE SHALL BE MORTAR FILLED UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
6. MORTAR SHALL CONFORM TO STD. SPECIFICATION ITEM SECTION 403S.3.5, MORTAR AND GROUT. ALL OTHER CONCRETE SHALL CONFORM TO STD. SPECIFICATION ITEM 403S, CONCRETE FOR STRUCTURES, UNLESS OTHERWISE NOTED.
7. CURB RAMPS WITH RETURNED CURB MAY ONLY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK DIAGONALLY ACROSS THE RAMP.



SLAB THICKNESS IN INCHES (T)	JOINT DEPTH
6" TO 8"	1 ½"
MORE THAN 8" THICK	2"

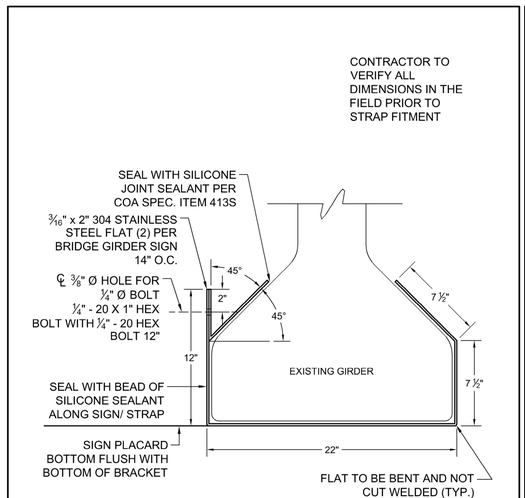
NOTES:
1. A STRAIGHT EDGE OR OTHER TYPE OF THIN BLADED MATERIAL SHALL BE USED TO SEPARATE THE AGGREGATE IN THE FRESHLY POURED CONCRETE. THE AGGREGATE CAN BE SEPARATED BY USING A BACK AND FORTH MOTION APPROXIMATELY 2-INCHES DEEP.
2. THE ZIP STRIP SHALL BE INSERTED INTO THE CONCRETE WHEN THE CONCRETE IS STILL WET.
3. THE TOP PORTION OF THE ZIP STRIP SHALL BE REMOVED LEAVING THE VERTICAL PORTION IN THE CONCRETE.
4. THE NEW JOINT FORMED SHALL BE BROOM FINISHED OVER THE TOP OF THE JOINT.
5. THE ZIP STRIP SPACING IN FEET SHALL BE 2T (2 x SLAB THICKNESS IN INCHES) OR AS APPROVED BY THE ENGINEER.



ISOLATION JOINT

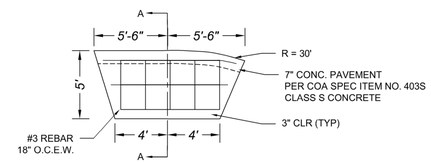
NOTES:
1. THE LOCATION OF JOINTS SHALL BE SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
2. THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 413S: CLEANING AND/OR SEALING JOINTS AND CRACKS (PORTLAND CEMENT CONCRETE).

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNING-PAVER (CITY PROPERTY/EASEMENTS)		CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DETECTABLE WARNING-PAVER (CITY PROPERTY/EASEMENTS)		CONTROL JOINT DETAIL		ISOLATION JOINT DETAIL	
RECORD COPY SIGNED BY BILL GARDNER *06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-2A 1 OF 2	*RECORD COPY SIGNED BY BILL GARDNER* *06/21/07* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-2A 2 OF 2				



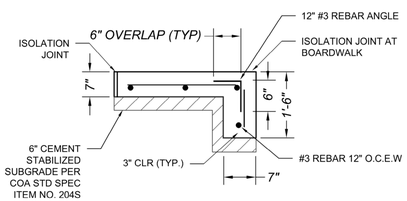
NOTES:

ALL STRAP DIMENSIONS ARE SHOWN TO THE INSIDE OF THE STRAP.
THE STRAP SHALL FIT TIGHT AROUND GIRDER BOTTOM FLANGE



BOARDWALK APPROACH SLAB

STA : 21+64

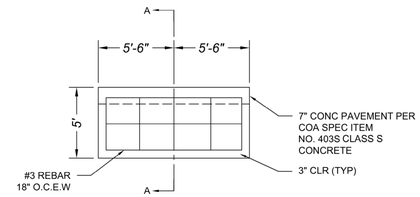


X-SECTION A-A

N.T.S

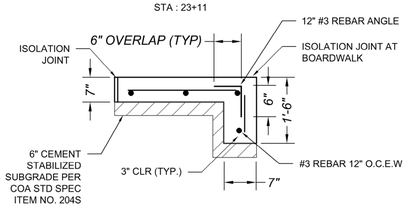
NOTES:

1. IF ROCK IS ENCOUNTERED, FOOTING TO BE DOWNLEED INTO BED ROCK W/ #5 REBAR DOWNLEED 8" INTO LIMESTONE BED ROCK ON 8" CENTER



BOARDWALK APPROACH SLAB

STA : 23+11



X-SECTION A-A

N.T.S

NOTES:

1. IF ROCK IS ENCOUNTERED, FOOTING TO BE DOWNLEED INTO BED ROCK W/ #5 REBAR DOWNLEED 8" INTO LIMESTONE BED ROCK ON 8" CENTER

	BRIDGE GIRDER SIGN BRACKET			BOARDWALK APPROACH SLAB			BOARDWALK APPROACH SLAB	

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

LOPEZ, RUBEN

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DETAIL SHEETS (SHEET 3 OF 3)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 10 20
HORIZONTAL SCALE IN FEET
0 5 10
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-003 | 43 OF 89

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7/29/2021 3:49 PM

DATE:
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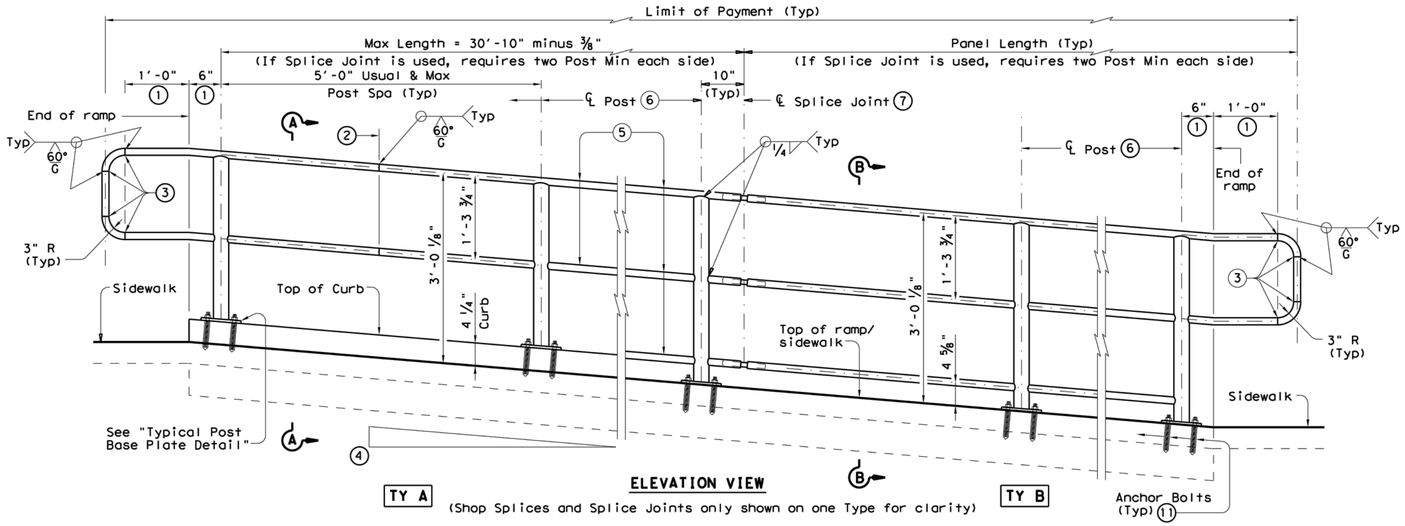
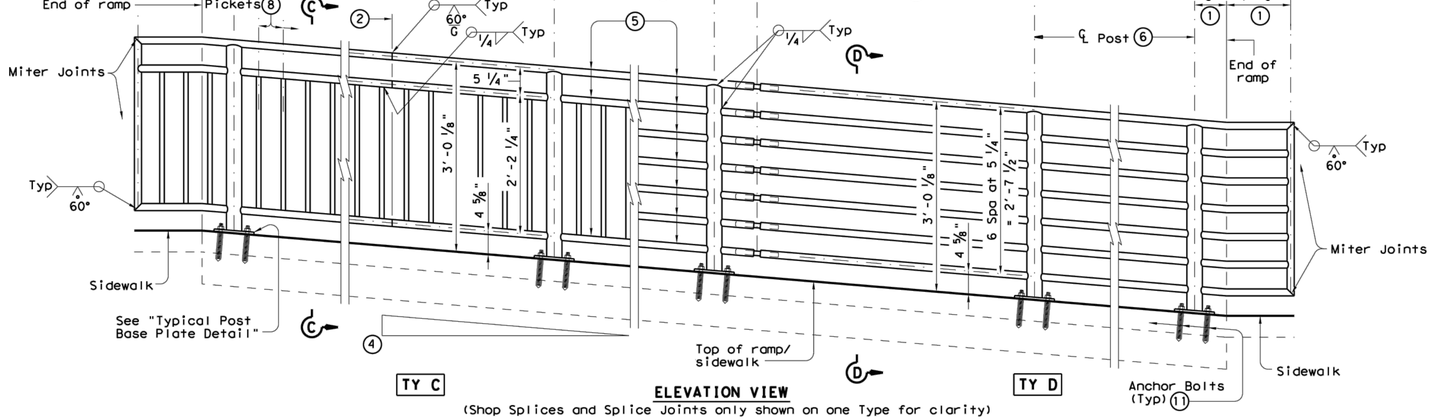
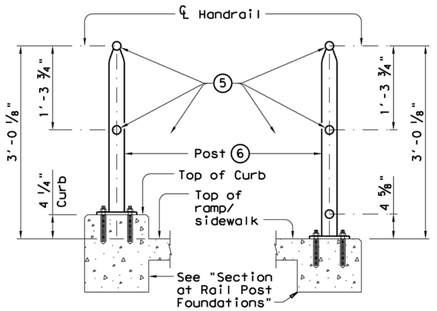


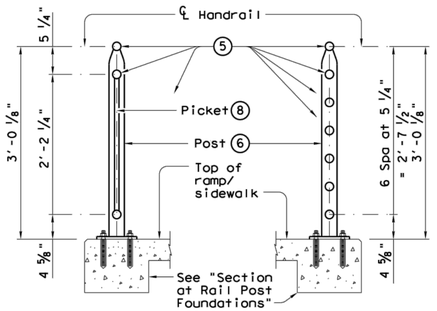


RECOMMENDED USAGE 9 10	
Dropoff Height/ Condition	Recommended Rail Options
<30" dropoff	TY A, TY B, TY C, or TY D
≥ 30" dropoff, or along Bike Path	TY E or TY F



SECTION A-A
(Showing Handrail **TY A**)

SECTION B-B
(Showing Handrail **TY B**)



SECTION C-C
(Showing Handrail **TY C**)

SECTION D-D
(Showing Handrail **TY D**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
9. When needed for accessibility (grade > 5 percent) or as needed for pedestrian safety.
10. Not to be used on bridges.
11. See "General Notes" for anchor bolt information.

SHEET 1 OF 3

Texas Department of Transportation — Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.

REV NO.	DATE	BY	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED PROFESSIONAL ENGINEER

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LIC # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

PEDESTRAIN HANDRAIL DETAILS (SHEET 1 OF 3)

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

GP-2020-0085.PW

CP-004 | 44 OF 89

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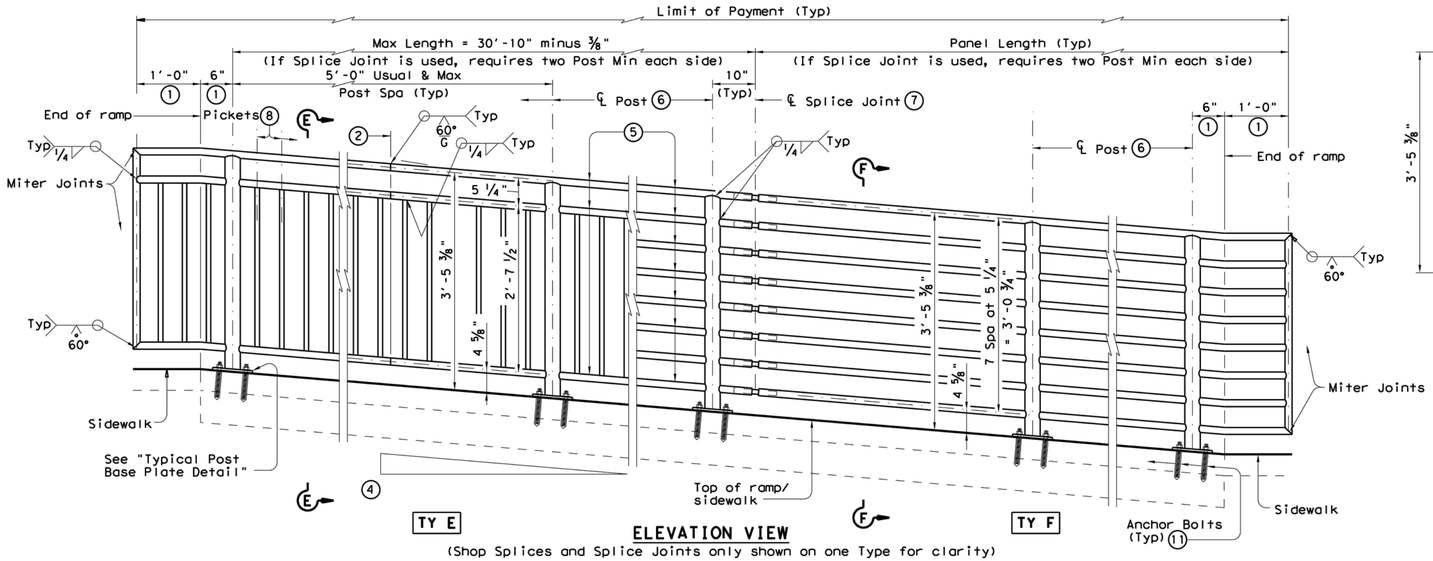
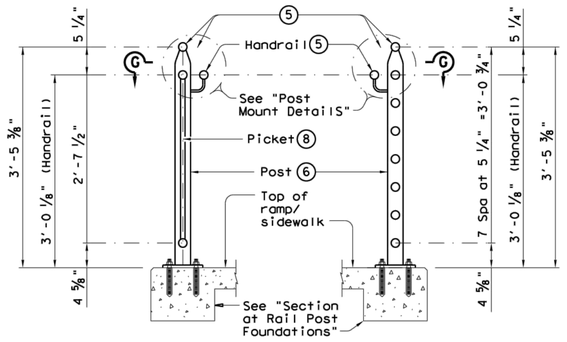
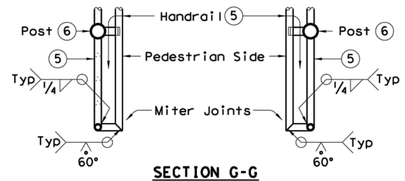


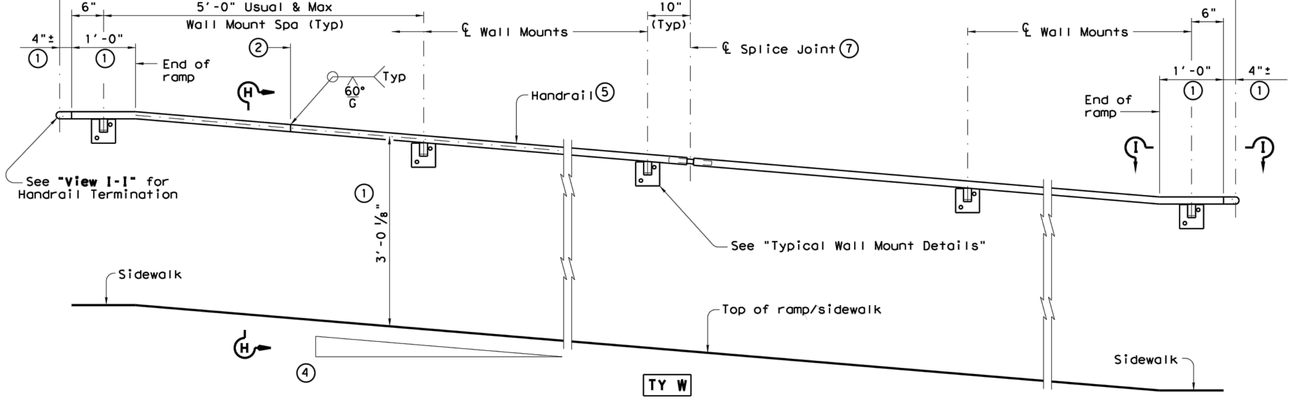


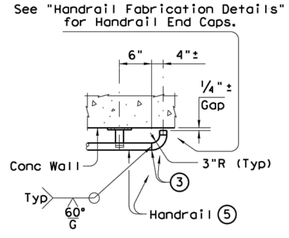
SECTION E-E
(Showing Handrail **TY E**)

SECTION F-F
(Showing Handrail **TY F**)

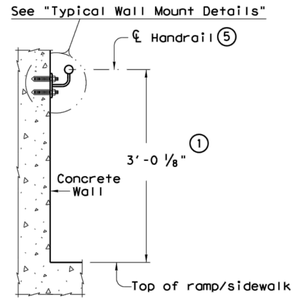


SECTION G-G
(Showing Handrail Termination)





VIEW I-I
(Showing Handrail Termination)



SECTION H-H
(Showing Handrail **TY W**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
11. See "General Notes" for anchor bolt information.

SHEET 2 OF 3

Texas Department of Transportation — Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)				
	DIST	COUNTY		SHEET NO.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

PEDESTRAIN HANDRAIL DETAILS (SHEET 2 OF 3)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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CP-005 | 45 OF 89

DATE:
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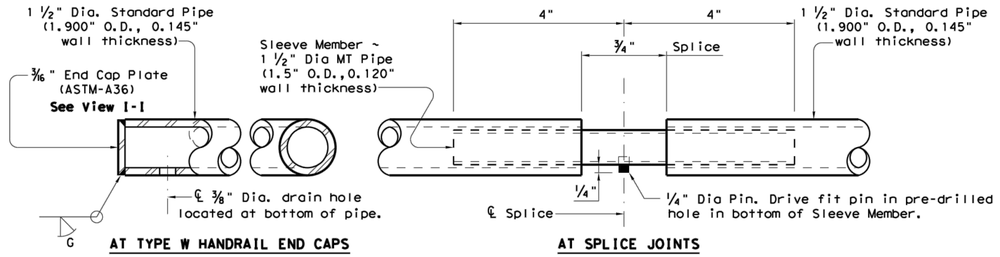
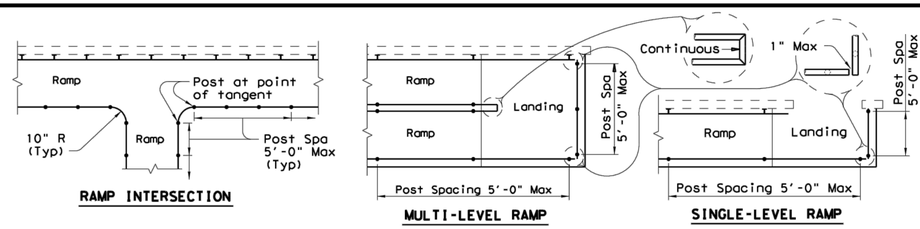
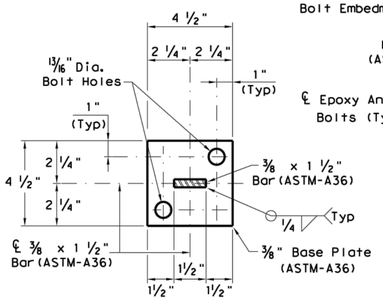
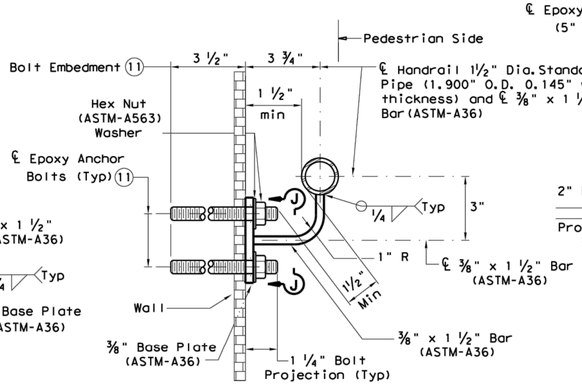


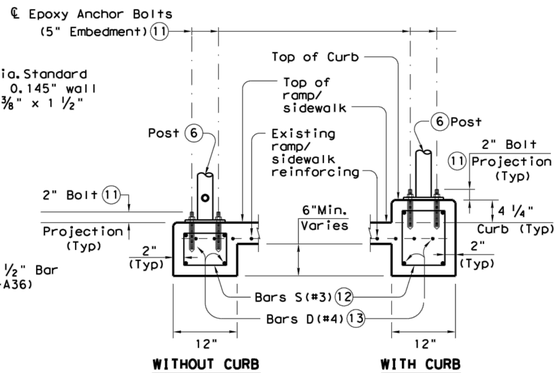
HANDRAIL FABRICATION DETAILS



PLAN SHOWING RAIL AT RAMP CONDITIONS







SECTION AT RAIL POST FOUNDATIONS

TYPICAL WALL MOUNT DETAILS

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

~~Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"~~

~~When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.~~

Epoxy Anchor bolts for wall mount and post base plate will be ⅝" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. ⅝" Dia. threaded rod embedment depth for wall mounts is 3 ½" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxies and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be ⅝" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

~~Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".~~

~~Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.~~

All exposed edges will be rounded or chamfered to approximately ⅛" by grinding.

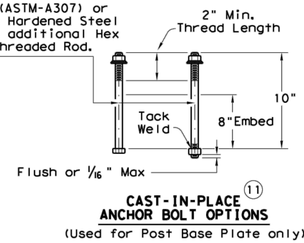
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

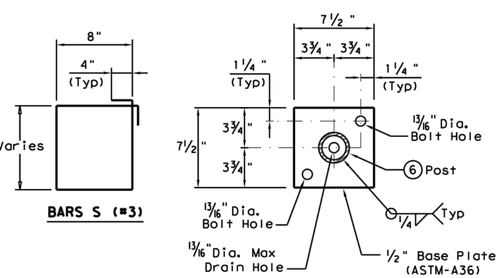
(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diamenter of top rail. Provide holes as needed in post for galvanizing drainage and venting.

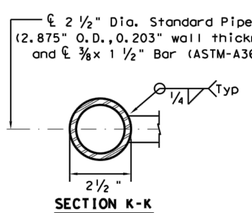
(11) See "General Notes" for anchor bolt information.

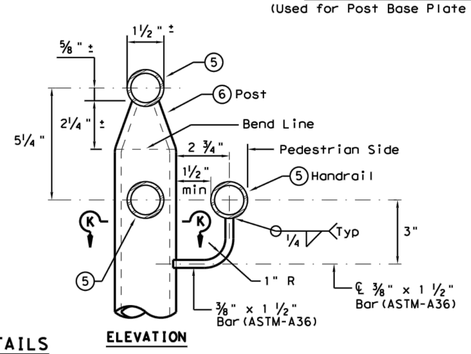
(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.









POST MOUNT DETAILS

SHEET 3 OF 3

Texas Department of Transportation — Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.

REVISION DESCRIPTION | DATE | BY | REV NO.

STATE OF TEXAS — 07.27.2021 — RUBEN LOPEZ, JR — 93745 — LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR LIC # 93745 ON 7/27/2021

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

PEDESTRAIN HANDRAIL DETAILS (SHEET 3 OF 3)

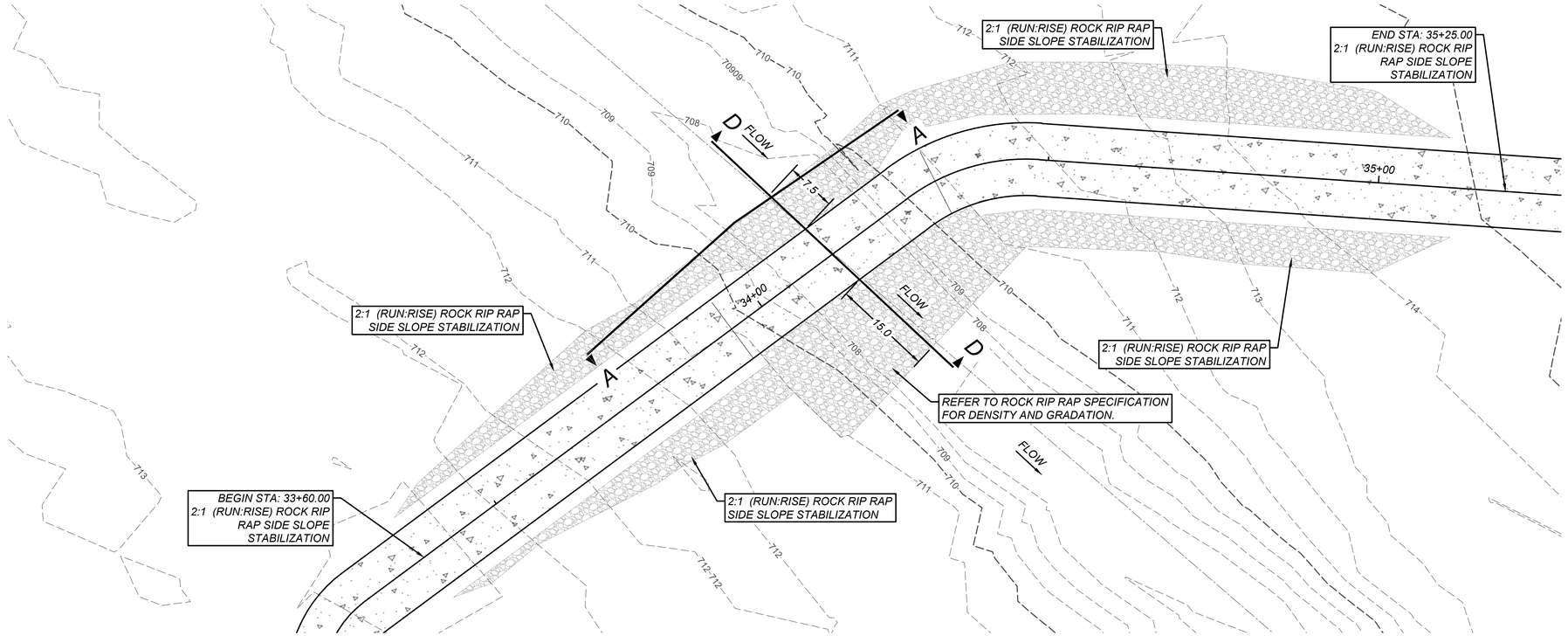
CITY OF AUSTIN — FOUNDED 1839

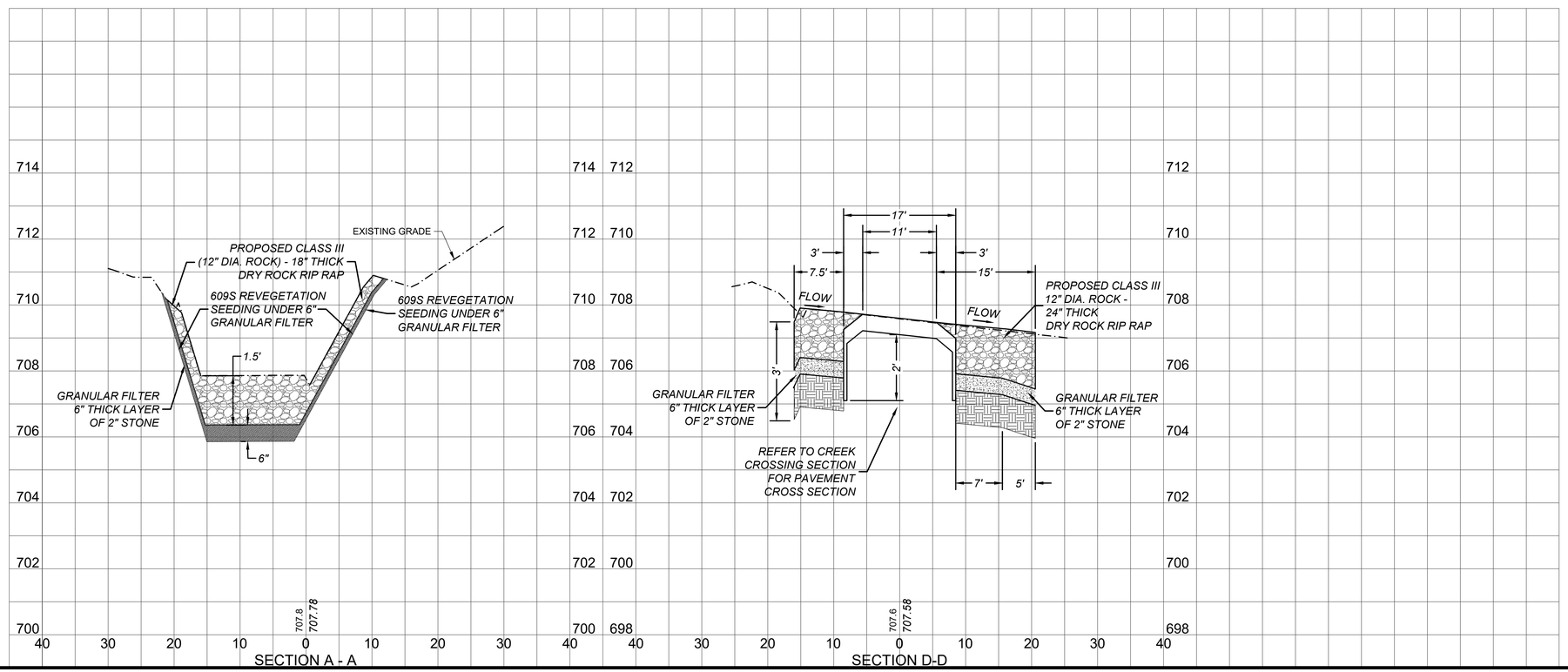
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

GP-2020-0085.PW

CP-006 | 46 OF 89

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-RD-TXSSC-PRD-TXSSC.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA 7/27/2021 10:53 AM





REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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DC # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

WILLIAMSON CREEK CROSSING SECTION A AND D

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 10 20
HORIZONTAL SCALE IN FEET
0 5 10
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-007 | 47 OF 89

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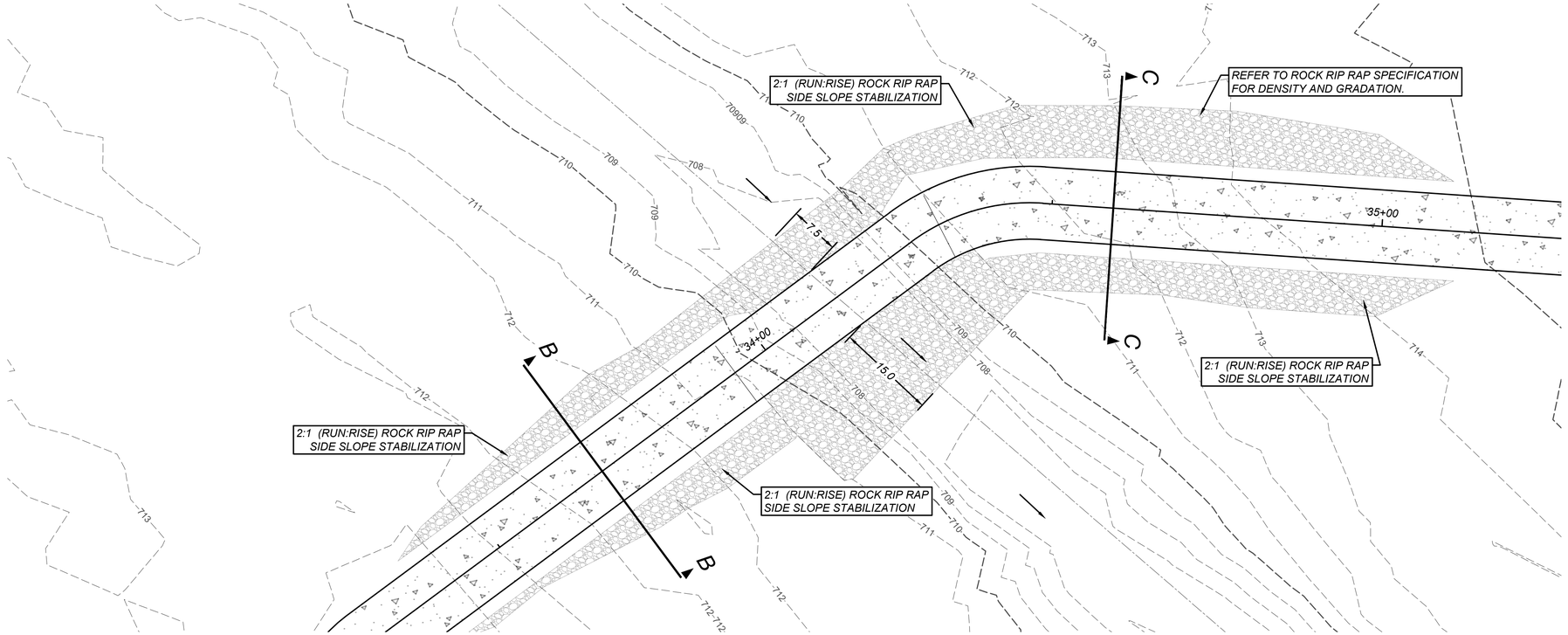

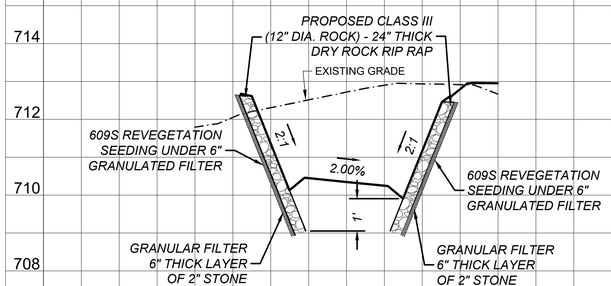

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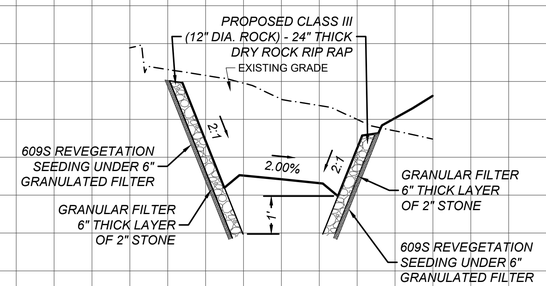

SECTION C - C

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

WILLIAMSON CREEK CROSSING SECTION B AND C

CITY OF AUSTIN
FOUNDED 1839

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REVIEWED BY	RL	12/2015

0 10 20
HORIZONTAL SCALE IN FEET
0 5 10
VERTICAL SCALE IN FEET

GP-2020-0085.PW

CP-008 | 48 OF 89

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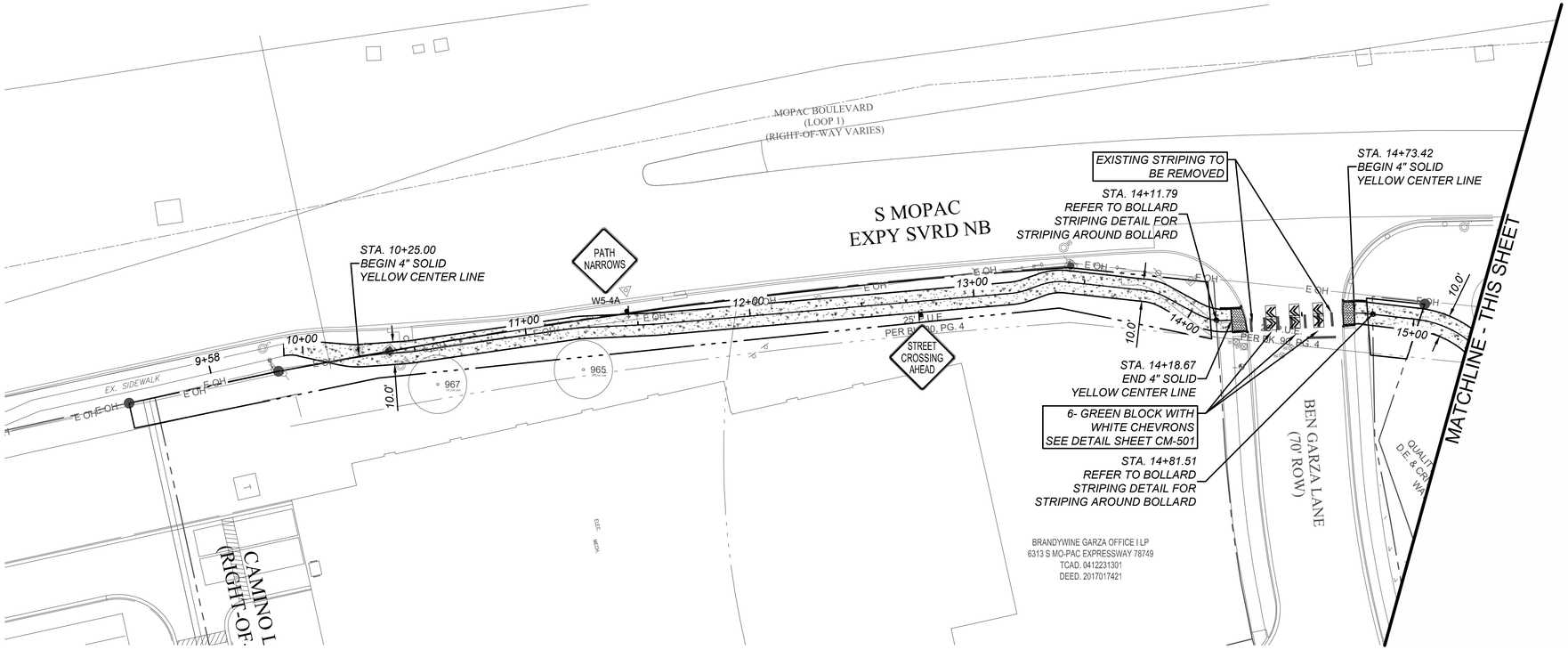
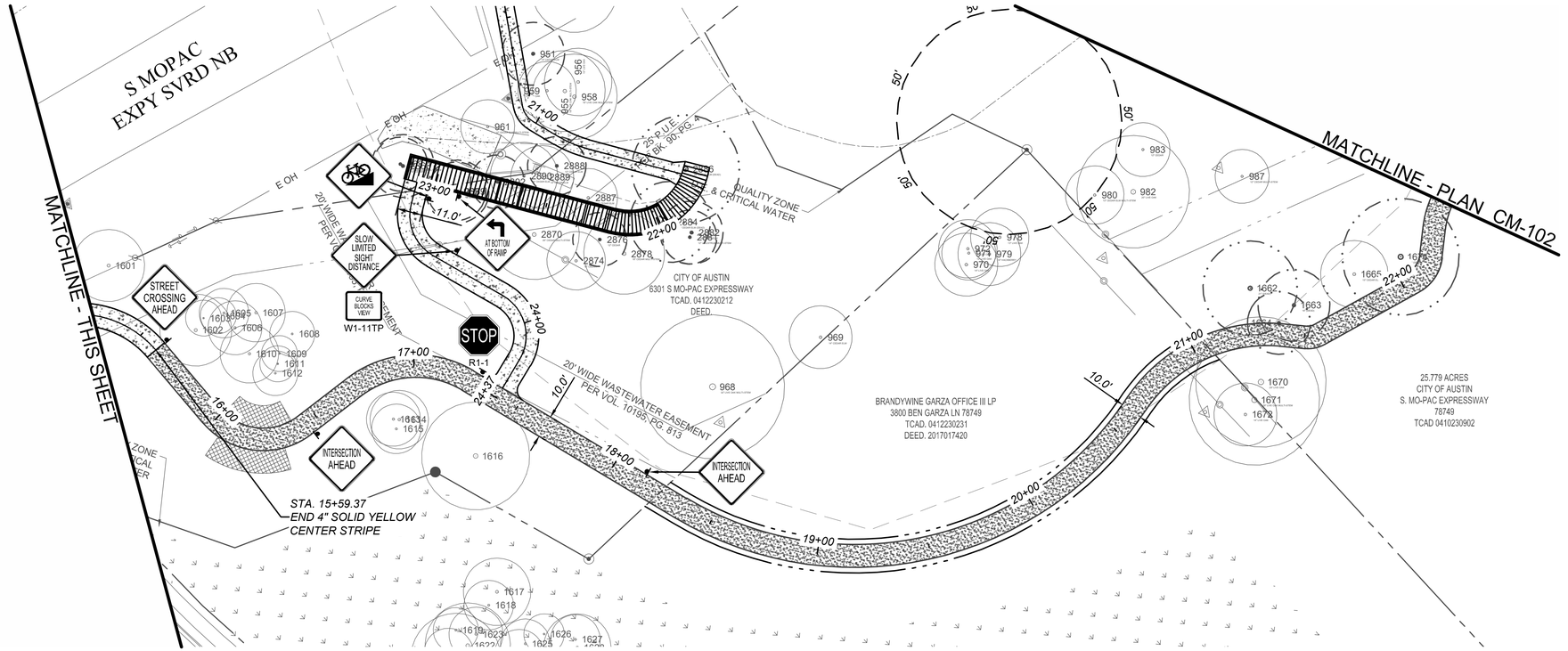


ALL PROPOSED SIGNAGE PER TMUTCD CHAPTER 9 AND TO BE 18" X 18" IN SIZE AS PER AASHTO BIKE GUIDE. UNLESS OTHERWISE NOTED.



REFER TO STRIPING AND SIGNAGE DETAIL FOR PROXIMITY PLACEMENT OF SIGNS TO EDGE OF TRAIL AND SIGNAGE HEIGHT. SEE SHEET CM-501

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL STRIPING AND SIGNAGE PLAN
SHEET 1 OF 3

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CM-101 | 49 OF 89

C:\USERS\YAMAGUCHIRC\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-ST-PLAN01.DWG; COA_PDF_22X34_COA_PLOT_STYLES.STB
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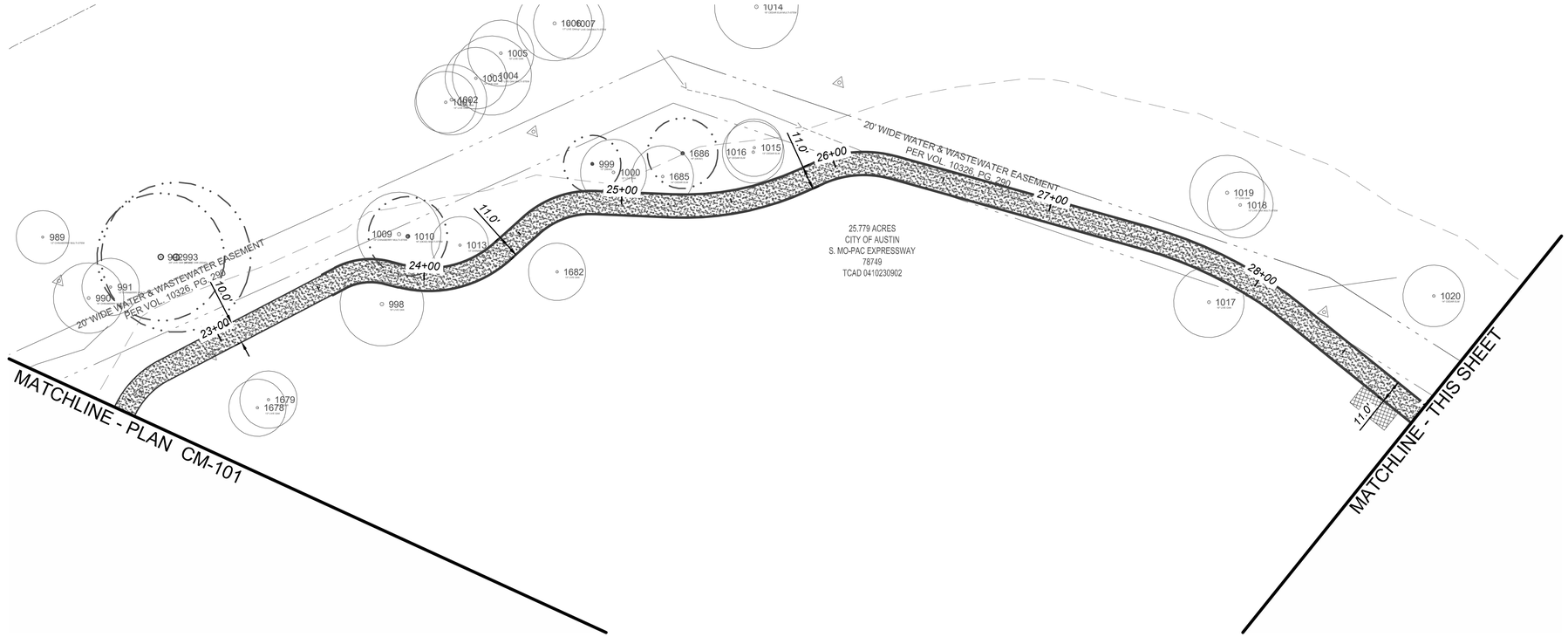

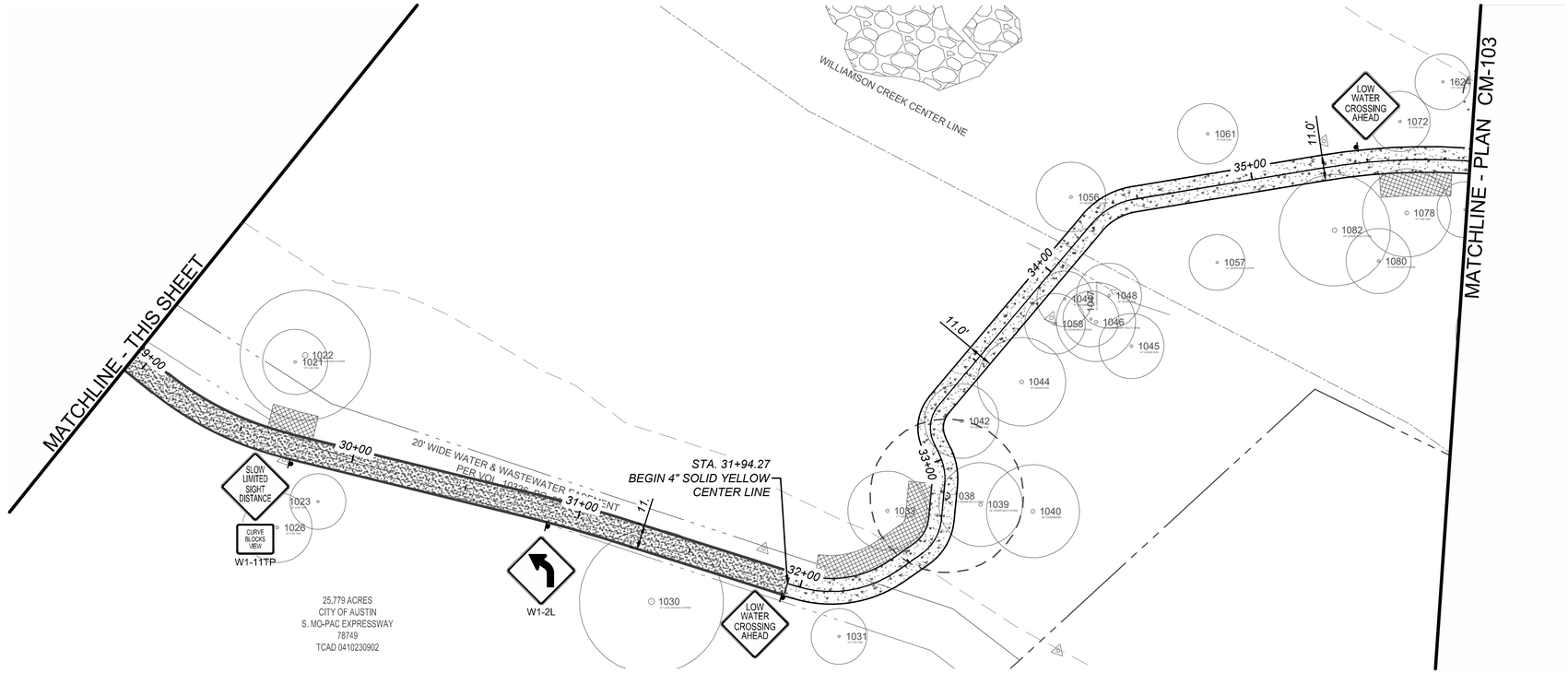

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL STRIPING AND SIGNAGE PLAN
SHEET 2 OF 3

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CM-102 | 50 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-ST-PLAN01.DWG; COA_PDF_22X34; COA_PLOT_STYLES.STB

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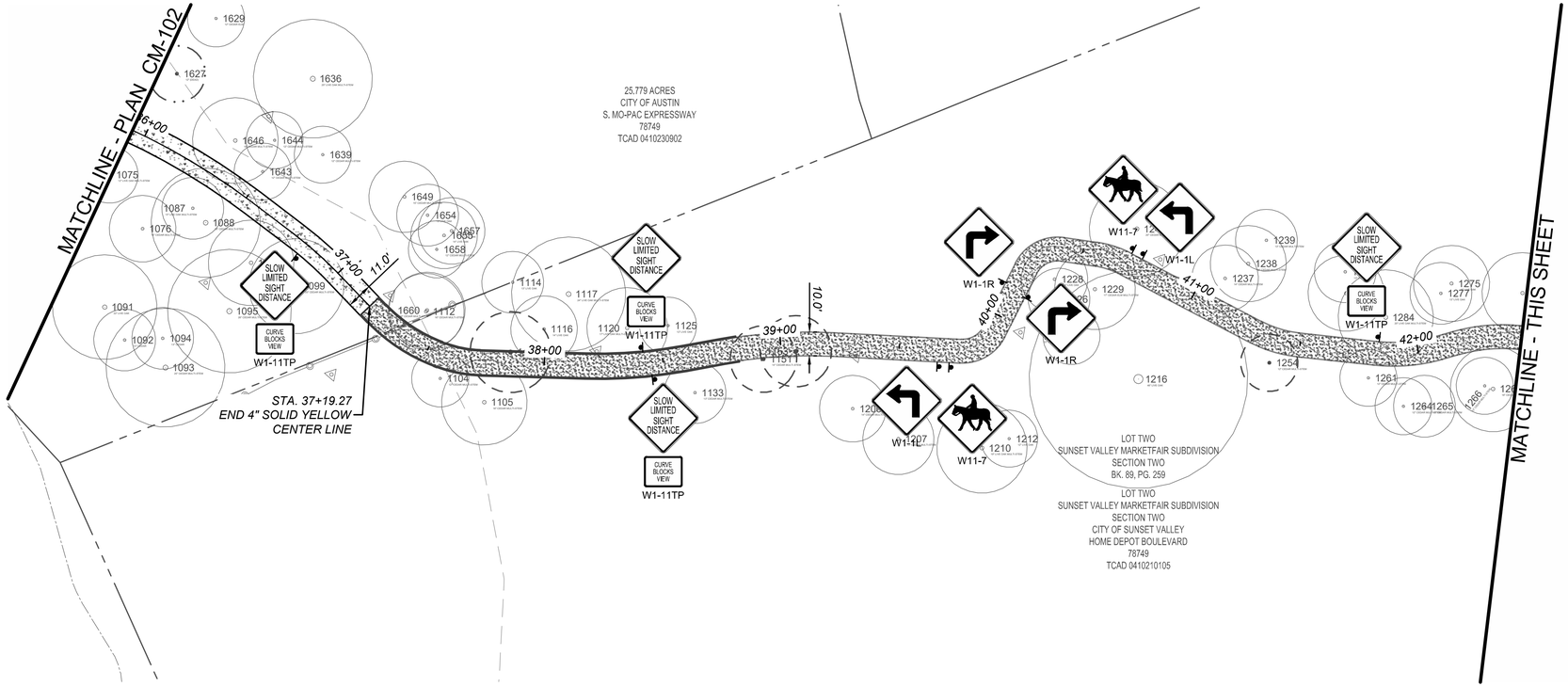

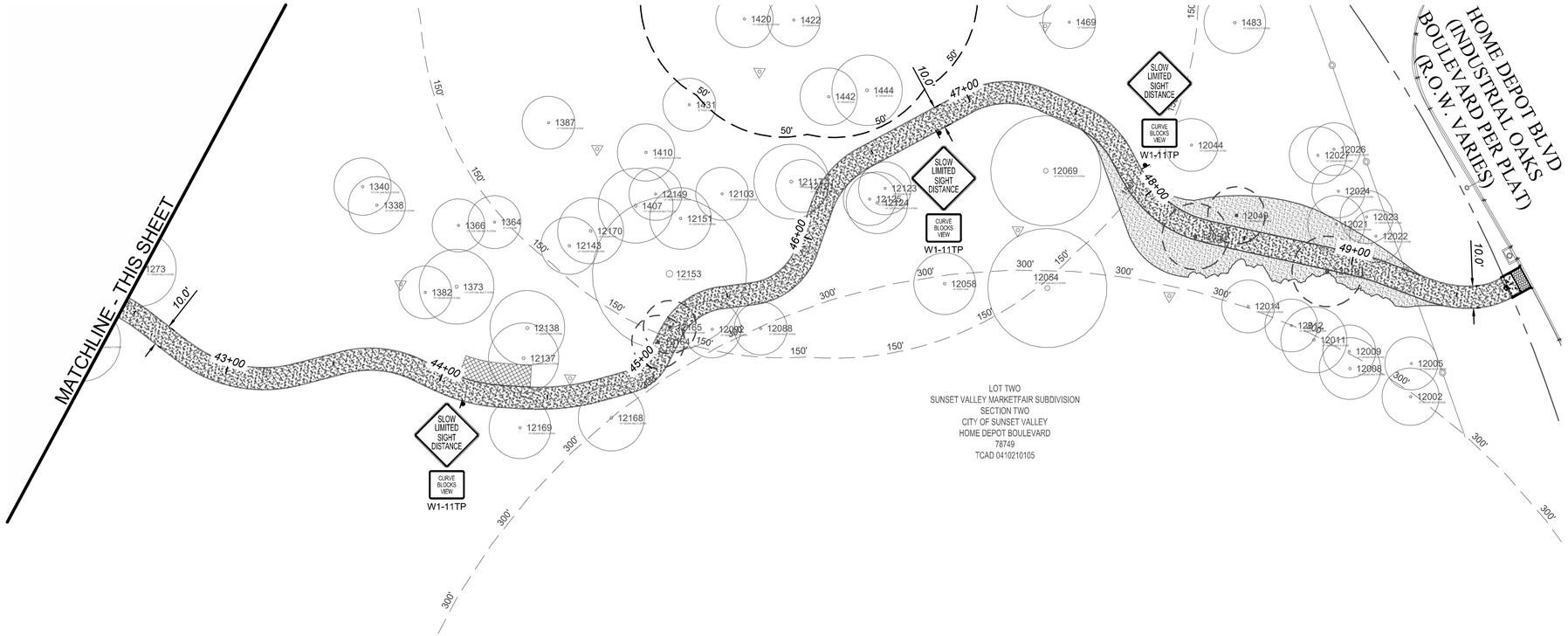

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

MAIN TRAIL STRIPING AND SIGNAGE PLAN
SHEET 3 OF 3

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
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DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CM-103 | 51 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PVD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-ST-PLAN03.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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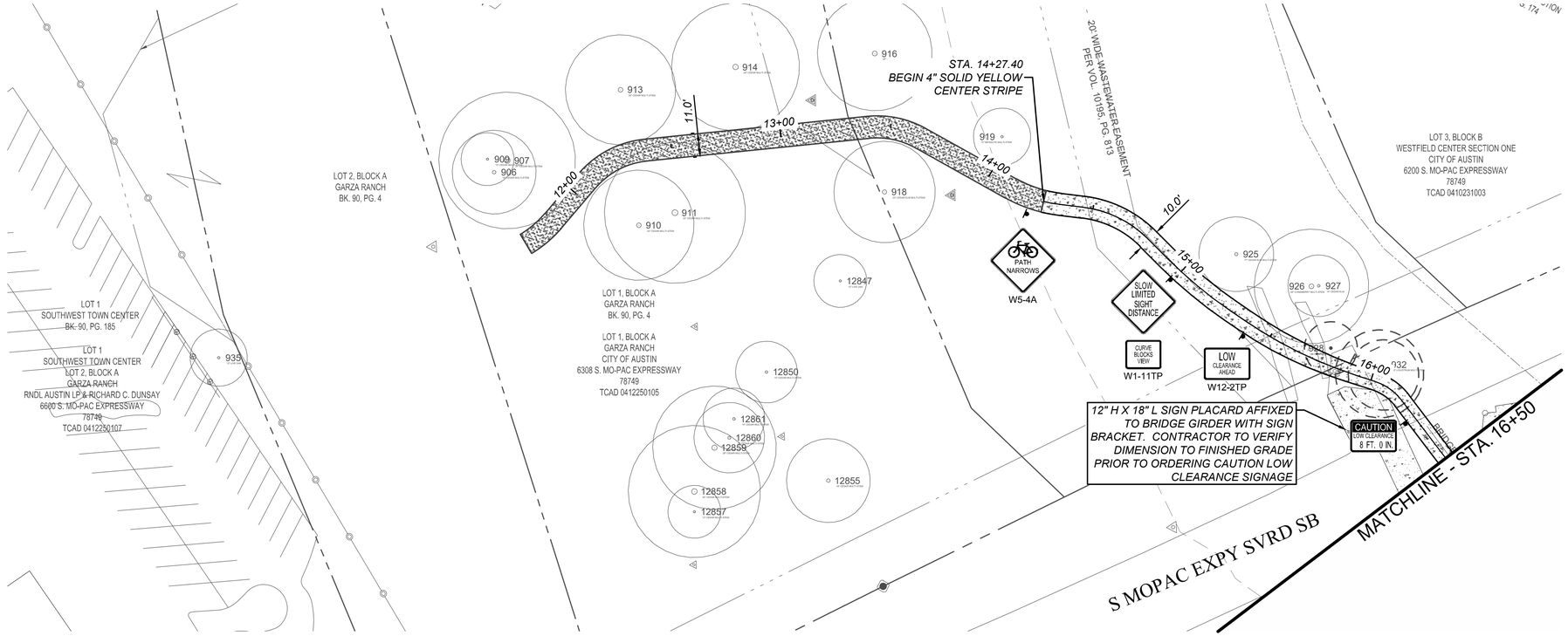

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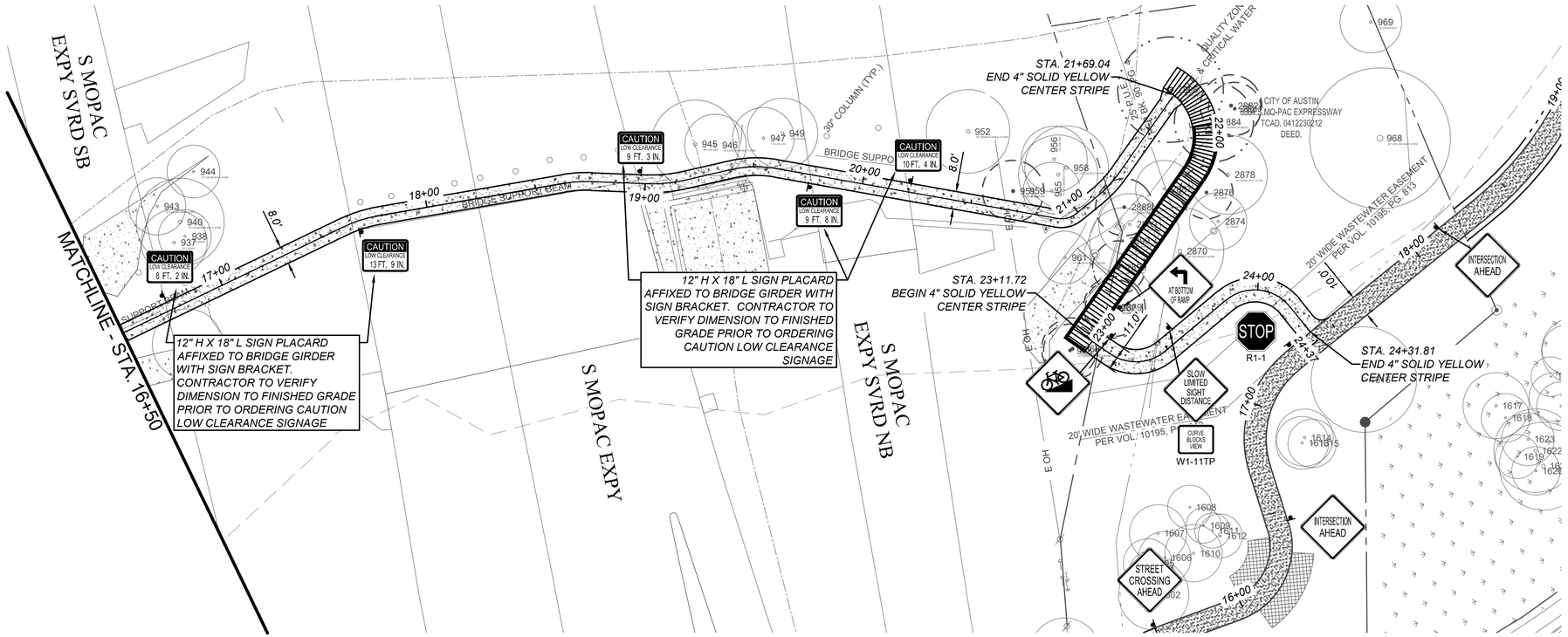

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RUBEN LOPEZ, JR
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

SPUR TRAIL STRIPING AND SIGNAGE PLAN

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CM-104 | 52 OF 89

C:\USERS\YAMAGUCHIRC\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-ST-PLAN01.DWG; COA_PDF_22X34, COA_PLOT_STYLES.STB YAMAGUCHI, RIA
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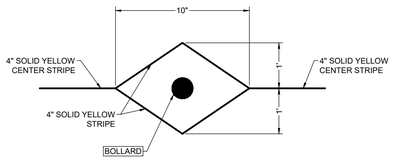
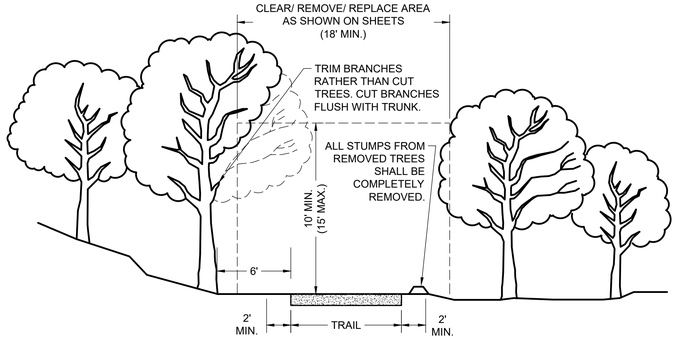


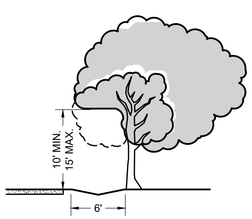
BOLLARD POST STRIPING
N.T.S.



TYPICAL TRAIL CONSTRUCTION LIMITS
N.T.S.

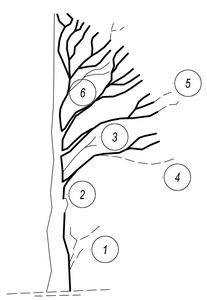
NOTES:

1. IT IS THE INTENT OF THE CITY OF AUSTIN TO MINIMIZE TREE LOSS AS A RESULT OF TRAIL CONSTRUCTION. ALL VEGETATION WITHIN LIMITED CLEARANCE AREA FOR TRAIL WILL NOT BE REMOVED OR DAMAGED UNLESS TREE TRIMMING OR GRADING IS REQUIRED. ONLY TREES DIRECTLY CONFLICTING WITH CONSTRUCTION WILL BE REMOVED, AND ONLY AT THE DIRECTION OF THE CONSTRUCTION ENGINEER.
2. CONTRACTOR WILL ENTER WOODEN CONSTRUCTION AREA FROM DESIGNATED ACCESS POINTS AS APPROVED BY THE CONSTRUCTION ENGINEER.
3. CONTRACTOR SHOULD LIMIT CONSTRUCTION EQUIPMENT TO WORKING/ CLEARING AREA ONLY TO PREVENT DAMAGE TO REMAINING TREES.
4. THE CONTRACTOR WILL CONSTRUCT TEMPORARY BARRICADES ALONG WORKING AREA TO PROTECT EXISTING VEGETATION, AS REQUIRED BY THE CONSTRUCTION ENGINEER.



1. REMOVE SUCKER SHOOTS AT BASE OF TREE
2. MAKE CLEAN CUTS ON OLD STUBS IF PRESENT
3. REMOVE ENTIRE SUPPLY OF TWIGS AND BUDS ON TRUNK
4. REMOVE LOWER BRANCH WHERE AN OVERLYING BRANCH OCCUPIES APPROX. SAME AREA
5. SHAPE TREE BY REMOVING INJURED AND MISSHAPENED BRANCHES
6. REMOVE CROSS BRANCHES AND THOSE DEVELOPING INTO SECONDARY LEADERS
7. DO NOT REMOVE LEADER

NOTE:
DASHED LINES INDICATE BRANCHES TO BE REMOVED. BALD CYPRESS - NO MORE THAN 20 PERCENT OF LIMBS. FOLIAGE. ETC. TO BE REMOVED.

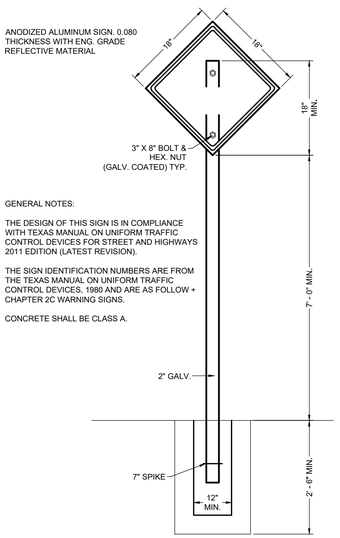


TYPICAL TREE PRUNING DETAILS
N.T.S.

TREES OR TREES WITH LIMBS TO REMAIN WITHIN CLEAR ZONE WILL BE PRUNED BY A PROFESSIONAL ARBORIST. LIMBS WILL BE PRUNED TO A MAX HEIGHT OF 15' TO CLEAR CONSTRUCTION ACTIVITIES AND AS REQUIRED TO CLEAR DRIVING SURFACE BY HEIGHT OF 15'. CARE SHOULD BE TAKEN NOT TO REMOVE LOW HANGING BRANCHES ONLY COINCIDENTAL.

*NOTE:
NOT A SEPARATE PAY ITEM, SUBSIDIARY TO CITY OF AUSTIN SPECIFICATION ITEM No. 101S, PREPARING RIGHT OF WAY.

ANODIZED ALUMINUM SIGN. 0.080 THICKNESS WITH ENG. GRADE REFLECTIVE MATERIAL



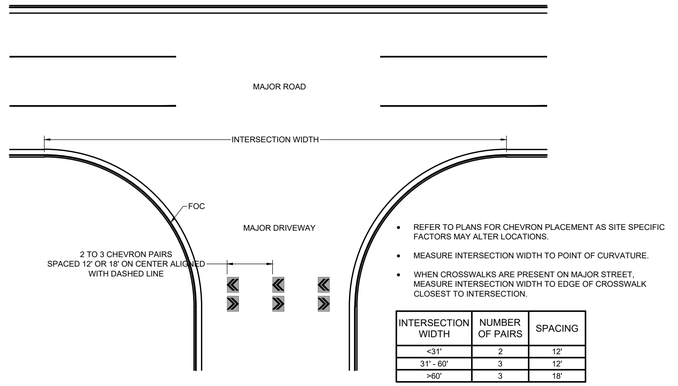
GENERAL NOTES:

THE DESIGN OF THIS SIGN IS IN COMPLIANCE WITH TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS 2011 EDITION (LATEST REVISION).

THE SIGN IDENTIFICATION NUMBERS ARE FROM THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1980 AND ARE AS FOLLOW + CHAPTER 2C WARNING SIGNS.

CONCRETE SHALL BE CLASS A.

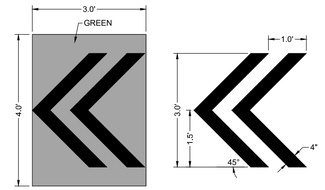
SIGN DETAIL TYPICAL
N.T.S.



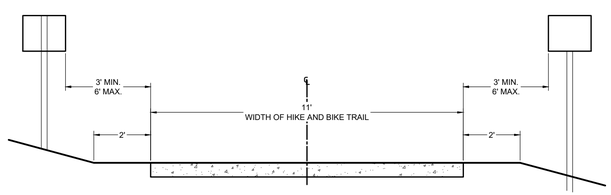
- REFER TO PLANS FOR CHEVRON PLACEMENT AS SITE SPECIFIC FACTORS MAY ALTER LOCATIONS.
- MEASURE INTERSECTION WIDTH TO POINT OF CURVATURE.
- WHEN CROSSWALKS ARE PRESENT ON MAJOR STREET, MEASURE INTERSECTION WIDTH TO EDGE OF CROSSWALK CLOSEST TO INTERSECTION.

INTERSECTION WIDTH	NUMBER OF PAIRS	SPACING
<31'	2	12'
31' - 60'	3	12'
>60'	3	18'

BIKEWAY
N.T.S.



CHEVRON DETAIL
N.T.S.



SIGN PLACEMENT DETAIL
N.T.S.

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07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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UC # 93745

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

STRIPING AND SIGNAGE DETAIL

CITY OF AUSTIN FOUNDED 1839

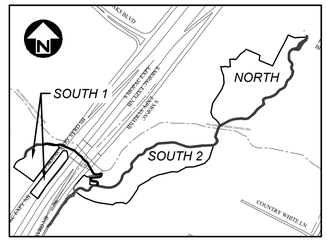
NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
D I V I S I O N

GP-2020-0085.PW

CM-501 | 53 OF 89

C:\USERS\YAMAGU\CHRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-ST-DETL.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
YAMAGUCHI, RIA
7/27/2021 10:37 AM



NOTE:

1. *1' TOPOGRAPHY IS BASED ON SURVEY FROM CITY OF AUSTIN - QMD AND ENHANCED WITH 2012 LiDAR.*

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DRAINAGE AREA MAP - SOUTH 1 OF 2

YAMAGUCHI, RIA

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 60 120
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CD-101 | 54 OF 89

C:\USERS\YAMAGU\CHRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-DRPLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/27/2021 10:38 AM

MATCHLINE - THIS SHEET

MOPAC N.B. LANE

MOPAC N.B.F.R.

150' CREEK ℄ SETBACK

DA S - 14
Area: 0.43 Acres
Area: 18821.87 Sq. Ft.

DA S - 13
Area: 1.06 Acres
Area: 46348.19 Sq. Ft.

DA S - 12
Area: 0.69 Acres
Area: 30230.68 Sq. Ft.

DA S - 15
Area: 1.30 Acres
Area: 56424.59 Sq. Ft.

DA S - 16
Area: 0.84 Acres
Area: 36610.35 Sq. Ft.

150' SETBACK

300' SETBACK

DA S - 11
Area: 0.25 Acres
Area: 10839.47 Sq. Ft.

50' SETBACK

DA S - 10
Area: 0.27 Acres
Area: 11646.40 Sq. Ft.

DA S - 8
Area: 0.45 Acres
Area: 19638.92 Sq. Ft.

DA S - 9
Area: 1.84 Acres
Area: 80074.33 Sq. Ft.

DA S - 5
Area: 0.53 Acres
Area: 22872.21 Sq. Ft.

DA S - 6
Area: 0.22 Acres
Area: 9545.21 Sq. Ft.

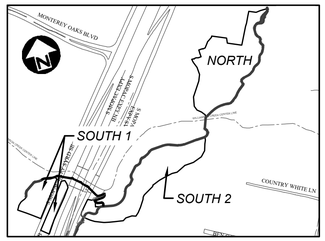
DA S - 7
Area: 0.36 Acres
Area: 15537.65 Sq. Ft.

BEN GARZA LANE
(70' R.O.W.)

SP-2015-0586C

SP-2015-0586C

MATCHLINE C



NOTE:

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DRAINAGE AREA MAP - SOUTH 2 OF 2

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 60 120
HORIZONTAL SCALE IN FEET

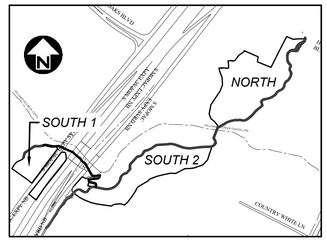
GP-2020-0085.PW

CD-102 | 55 OF 89

YAMAGUCHI, RIA

C:\USERS\YAMAGU\CHRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-DRP-LAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

7/27/2021 10:39 AM



NOTE:

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REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DRAINAGE AREA MAP - NORTH

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 60 120
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CD-103 | 56 OF 89

C:\USERS\YAMAGU\CHRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-DRPLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
YAMAGUCHI, RIA
7/27/2021 10:39 AM

STORM FREQUENCY	a	b	c
2	54.767	11.051	0.8116
10	70.82	10.396	0.7725
25	82.936	10.746	0.7634
100	118.3	13.185	0.7736

i=a/(t+b)^c

Q=CiA

Legend

Watch out! No. must be 100
Should not be changed

PROJECT NAME: VIOLET CROWN TRAIL
PROJECT NO. 60BA024ESD

Prepared By: rlj **Date:** 12/12/19 9:25 AM
File name: \\coacd.org\dfs\P\WDESD\Team1\PWD_VioletCrown\Eng_Analysis_Drainage Calculations\[Drainage Calculatio

AREA	S-1			
Event	2-yr	10-yr	25-yr	100-yr
Acres	0.07	0.07	0.07	0.07
C	0.31	0.36	0.40	0.47
Tc	30.83	30.83	30.83	30.83
I	2.64	4.00	4.82	6.33
Q	**0.06**	**0.11**	**0.14**	**0.22**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.07	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.07	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-2			
Event	S-10	10-yr	25-yr	100-yr
Acres	0.78	0.78	0.78	0.78
C	0.31	0.36	0.40	0.47
Tc	34.43	34.43	34.43	34.43
I	2.47	3.75	4.52	5.96
Q	**0.60**	**1.05**	**1.40**	**2.17**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.78	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.78	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-3			
Event	N-3	10-yr	25-yr	100-yr
Acres	0.70	0.70	0.70	0.70
C	0.31	0.36	0.40	0.47
Tc	35.36	35.36	35.36	35.36
I	2.43	3.69	4.45	5.87
Q	**0.53**	**0.93**	**1.24**	**1.92**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.70	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.70	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-4			
Event	N-13	10-yr	25-yr	100-yr
Acres	0.67	0.67	0.67	0.67
C	0.31	0.36	0.40	0.47
Tc	30.66	30.66	30.66	30.66
I	2.65	4.02	4.83	6.35
Q	**0.55**	**0.97**	**1.30**	**2.00**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.67	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.67	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-17			
Event	0	10-yr	25-yr	100-yr
Acres	1.18	1.18	1.18	1.18
C	0.33	0.39	0.43	0.50
Tc	25.65	25.65	25.65	25.65
I	2.94	4.44	5.33	6.98
Q	**1.14**	**2.05**	**2.71**	**4.14**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.00	**0.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
1.08	**91.2**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.10	**8.8**	Asphalt	0.73	0.81	0.86	0.95
1.18	**100**		**0.33**	**0.39**	**0.43**	**0.50**

AREA	S-5			
Event	0	10-yr	25-yr	100-yr
Acres	0.31	0.31	0.31	0.31
C	0.29	0.35	0.39	0.46
Tc	30.66	30.66	30.66	30.66
I	2.65	4.02	4.83	6.35
Q	**0.24**	**0.43**	**0.58**	**0.90**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.00	**0.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.31	**100.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.31	**100**		**0.29**	**0.35**	**0.39**	**0.46**

AREA	S-6			
Event	0	10-yr	25-yr	100-yr
Acres	0.32	0.32	0.32	0.32
C	0.31	0.36	0.40	0.47
Tc	25.65	25.65	25.65	25.65
I	2.94	4.44	5.33	6.98
Q	**0.29**	**0.50**	**0.67**	**1.04**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.32	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.32	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-7			
Event	0	10-yr	25-yr	100-yr
Acres	0.40	0.40	0.40	0.40
C	0.31	0.36	0.40	0.47
Tc	36.40	36.40	36.40	36.40
I	2.39	3.63	4.38	5.77
Q	**0.29**	**0.52**	**0.70**	**1.08**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.40	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.40	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-8			
Event	0	10-yr	25-yr	100-yr
Acres	0.45	0.45	0.45	0.45
C	0.31	0.36	0.40	0.47
Tc	36.06	36.06	36.06	36.06
I	2.40	3.65	4.40	5.80
Q	**0.34**	**0.59**	**0.79**	**1.23**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.45	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.45	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-9			
Event	0	10-yr	25-yr	100-yr
Acres	1.84	1.84	1.84	1.84
C	0.31	0.36	0.40	0.47
Tc	40.46	40.46	40.46	40.46
I	2.23	3.40	4.11	5.43
Q	**1.27**	**2.25**	**3.02**	**4.69**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.84	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.84	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-10			
Event	0	10-yr	25-yr	100-yr
Acres	0.27	0.27	0.27	0.27
C	0.31	0.36	0.40	0.47
Tc	40.46	40.46	40.46	40.46
I	2.23	3.40	4.11	5.43
Q	**0.19**	**0.33**	**0.44**	**0.68**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.27	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.27	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-11			
Event	0	10-yr	25-yr	100-yr
Acres	0.25	0.25	0.25	0.25
C	0.31	0.36	0.40	0.47
Tc	65.35	65.35	65.35	65.35
I	1.62	2.50	3.04	4.05
Q	**0.13**	**0.22**	**0.30**	**0.47**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.25	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.25	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-12			
Event	0	10-yr	25-yr	100-yr
Acres	0.69	0.69	0.69	0.69
C	0.31	0.36	0.40	0.47
Tc	54.23	54.23	54.23	54.23
I	1.84	2.83	3.43	4.55
Q	**0.40**	**0.71**	**0.95**	**1.49**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.69	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.69	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-13			
Event	0	10-yr	25-yr	100-yr
Acres	1.06	1.06	1.06	1.06
C	0.31	0.36	0.40	0.47
Tc	40.93	40.93	40.93	40.93
I	2.22	3.38	4.08	5.40
Q	**0.73**	**1.29**	**1.74**	**2.70**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.06	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.06	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-14			
Event	0	10-yr	25-yr	100-yr
Acres	0.43	0.43	0.43	0.43
C	0.31	0.36	0.40	0.47
Tc	44.89	44.89	44.89	44.89
I	2.09	3.19	3.86	5.11
Q	**0.28**	**0.50**	**0.67**	**1.04**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.43	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.43	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-15			
Event	0	10-yr	25-yr	100-yr
Acres	1.30	1.30	1.30	1.30
C	0.31	0.36	0.40	0.47
Tc	49.37	49.37	49.37	49.37
I	1.96	3.01	3.64	4.82
Q	**0.79**	**1.40**	**1.88**	**2.94**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.30	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.30	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	S-16			
Event	0	10-yr	25-yr	100-yr
Acres	0.84	0.84	0.84	0.84
C	0.31	0.36	0.40	0.47
Tc	33.45	33.45	33.45	33.45
I	2.52	3.82	4.60	6.05
Q	**0.66**	**1.16**	**1.55**	**2.39**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.84	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.84	**100**		**0.31**	**0.36**	**0.40**	**0.47**

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR. LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DRAINAGE AREA CALCULATIONS - SOUTH 1 & 2

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
D I V I S I O N

GP-2020-0085.PW

CD-601 | 57 OF 89

C:\USERS\YAMAGUCHIR\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-DR-PLAN DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/27/2021 10:39 AM YAMAGUCHI, RIA

AREA	N-1			
Event	0	10-yr	25-yr	100-yr
Acres	1.55	1.55	1.55	1.55
C	0.31	0.36	0.40	0.47
Tc	38.07	38.07	38.07	38.07
I	2.32	3.53	4.26	5.63
Q	**1.12**	**1.97**	**2.65**	**4.10**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.55	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.55	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-2			
Event	0	10-yr	25-yr	100-yr
Acres	1.09	1.09	1.09	1.09
C	0.31	0.36	0.40	0.47
Tc	31.52	31.52	31.52	31.52
I	2.61	3.95	4.76	6.26
Q	**0.88**	**1.55**	**2.07**	**3.20**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.09	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.09	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-3			
Event	0	10-yr	25-yr	100-yr
Acres	1.01	1.01	1.01	1.01
C	0.31	0.36	0.40	0.47
Tc	42.98	42.98	42.98	42.98
I	2.15	3.28	3.96	5.24
Q	**0.68**	**1.20**	**1.61**	**2.50**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.01	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.01	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-4			
Event	0	10-yr	25-yr	100-yr
Acres	0.48	0.48	0.48	0.48
C	0.31	0.36	0.40	0.47
Tc	41.75	41.75	41.75	41.75
I	2.19	3.34	4.03	5.33
Q	**0.33**	**0.58**	**0.78**	**1.21**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.48	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.48	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-5			
Event	0	10-yr	25-yr	100-yr
Acres	0.53	0.53	0.53	0.53
C	0.31	0.36	0.40	0.47
Tc	42.42	42.42	42.42	42.42
I	2.17	3.31	3.99	5.28
Q	**0.36**	**0.64**	**0.85**	**1.33**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.53	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.53	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-6			
Event	0	10-yr	25-yr	100-yr
Acres	0.36	0.36	0.36	0.36
C	0.31	0.36	0.40	0.47
Tc	36.68	36.68	36.68	36.68
I	2.38	3.61	4.36	5.75
Q	**0.26**	**0.46**	**0.62**	**0.96**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.36	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.36	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-7 & 8			
Event	0	10-yr	25-yr	100-yr
Acres	1.13	1.13	1.13	1.13
C	0.31	0.36	0.40	0.47
Tc	48.79	48.79	48.79	48.79
I	1.98	3.03	3.66	4.86
Q	**0.69**	**1.23**	**1.65**	**2.57**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
1.13	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
1.13	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-9			
Event	0	10-yr	25-yr	100-yr
Acres	0.98	0.98	0.98	0.98
C	0.31	0.36	0.40	0.47
Tc	48.08	48.08	48.08	48.08
I	2.00	3.06	3.70	4.90
Q	**0.61**	**1.08**	**1.45**	**2.26**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.98	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.98	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-10			
Event	0	10-yr	25-yr	100-yr
Acres	0.98	0.98	0.98	0.98
C	0.41	0.47	0.51	0.59
Tc	64.88	64.88	64.88	64.88
I	1.63	2.51	3.05	4.06
Q	**0.66**	**1.16**	**1.54**	**2.35**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.75	**76.5**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.23	**23.5**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.98	**100**		**0.41**	**0.47**	**0.51**	**0.59**

AREA	N-11			
Event	0	10-yr	25-yr	100-yr
Acres	0.29	0.29	0.29	0.29
C	0.37	0.43	0.47	0.54
Tc	46.62	46.62	46.62	46.62
I	2.04	3.12	3.77	4.99
Q	**0.22**	**0.38**	**0.51**	**0.78**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.25	**85.7**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.04	**14.3**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.29	**100**		**0.37**	**0.43**	**0.47**	**0.54**

AREA	N-12			
Event	0	10-yr	25-yr	100-yr
Acres	0.23	0.23	0.23	0.23
C	0.31	0.36	0.40	0.47
Tc	44.66	44.66	44.66	44.66
I	2.10	3.20	3.87	5.13
Q	**0.15**	**0.27**	**0.36**	**0.56**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.23	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.23	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-13			
Event	0	10-yr	25-yr	100-yr
Acres	0.43	0.43	0.43	0.43
C	0.31	0.36	0.40	0.47
Tc	36.98	36.98	36.98	36.98
I	2.36	3.60	4.34	5.72
Q	**0.31**	**0.55**	**0.74**	**1.15**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.43	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.43	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-14			
Event	0	10-yr	25-yr	100-yr
Acres	0.28	0.28	0.28	0.28
C	0.31	0.36	0.40	0.47
Tc	40.94	40.94	40.94	40.94
I	2.22	3.38	4.08	5.40
Q	**0.19**	**0.34**	**0.46**	**0.71**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.28	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.28	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-15			
Event	0	10-yr	25-yr	100-yr
Acres	0.23	0.23	0.23	0.23
C	0.31	0.36	0.40	0.47
Tc	36.25	36.25	36.25	36.25
I	2.39	3.64	4.39	5.79
Q	**0.17**	**0.30**	**0.41**	**0.63**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.23	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.23	**100**		**0.31**	**0.36**	**0.40**	**0.47**

AREA	N-16			
Event	0	10-yr	25-yr	100-yr
Acres	0.29	0.29	0.29	0.29
C	0.31	0.36	0.40	0.47
Tc	34.80	34.80	34.80	34.80
I	2.46	3.73	4.49	5.92
Q	**0.22**	**0.39**	**0.53**	**0.82**

ACRES	%	COMPOSITE C CALCULATIONS Event	2-yr	10-yr	25-yr	100-yr
0.29	**100.0**	Forest/Woodlands 2-7%	0.31	0.36	0.40	0.47
0.00	**0.0**	Grass/Good 2-7%	0.29	0.35	0.39	0.46
0.00	**0.0**	Concrete	0.75	0.83	0.88	0.97
0.00	**0.0**	Asphalt	0.73	0.81	0.86	0.95
0.29	**100**		**0.31**	**0.36**	**0.40**	**0.47**

TIME OF CONCENTRATION - TR-55 CALCULATIONS

Project Name: Violet Crown Trail
Date Updated: 11/15/2016

*See Equations tab for Tc equations

Drainage Area		Tc		Sheet Flow					Shallow Concentrated Flow					Channel		
Basin	Area (ac)	Tc (min)	Tlag (min)	L (ft)	n	Δ Elev. (ft)	s (ft/ft)	T_t Sheet (min)	L (ft)	Δ Elev. (ft)	s (ft/ft)	Paved?	T_t Shallow1 (min)	L (ft)	v (fps)	T_t Channel (min)
S-1	0.07	30.8	18.5	100	0.8	3	0.030	30.7	30	1	0.033	N	0.2			
S-2	0.78	34.4	20.7	100	0.8	2.5	0.025	33.0	190	3.5	0.018	N	1.4			
S-3	0.70	35.4	21.2	100	0.8	2.25	0.023	34.4	160	4.75	0.030	N	1.0	150	4	0.63
S-4	0.67	30.7	18.4	100	0.8	3	0.030	30.7						350	4	1.46
S-17	1.18	25.6	15.4	40	0.8	0.3	0.008	25.6						540	4	2.25
S-5	0.31	36.4	21.8	80	0.8	1	0.013	36.4								
S-6	0.32	36.1	21.6	100	0.8	2.0	0.020	36.1								
S-7	0.40	40.5	24.3	100	0.8	1.5	0.015	40.5								
S-8	0.45	40.5	24.3	100	0.8	1.5	0.015	40.5								
S-9	1.84	65.3	39.2	100	0.8	0.5	0.005	62.8	160	2	0.013	N	1.5	260	4	1.08
S-10	0.27	54.2	32.5	100	0.8	0.8	0.008	53.4	110	2	0.018	N	0.8			
S-11	0.25	40.9	24.6	100	0.8	1.5	0.015	40.5	80	2.5	0.031	N	0.5			
S-12	0.69	44.9	26.9	100	0.8	1.3	0.013	43.5	260	10	0.038	N	1.4			
S-13	1.06	49.4	29.6	100	0.8	1.0	0.010	47.6	330	12	0.036	N	1.8			
S-14	0.43	33.4	20.1	100	0.8	2.5	0.025	33.0	110	6.5	0.059	N	0.5			
S-15	1.30	38.1	22.8	100	0.8	2.0	0.020	36.1	330	9.5	0.029	N	2.0			
S-16	0.84	31.5	18.9	100	0.8	3.0	0.030	30.7	140	4	0.029	N	0.9			
N-1	1.55	43.0	25.8	100	0.8	1.5	0.015	40.5	210	3	0.014	N	1.8	170	4	0.71
N-2	1.09	41.7	25.0	100	0.8	1.5	0.015	40.5	140	3.5	0.025	N	0.9	90	4	0.38
N-3	1.01	42.4	25.5	100	0.8	1.5	0.015	40.5	220	4.5	0.020	N	1.6	90	4	0.38
N-4	0.48	36.7	22.0	100	0.8	2.0	0.020	36.1	90	2	0.022	N	0.6			
N-5	0.53	48.8	29.3	100	0.8	1.0	0.010	47.6	160	3	0.019	N	1.2			
N-6	0.36	48.1	28.8	100	0.8	1.0	0.010	47.6	70	1.5	0.021	N	0.5			
N-7 & 8	1.12	64.9	38.9	100	0.8	0.5	0.005	62.8	200	2.5	0.013	N	1.8	60	4	0.25
N-9	0.98	46.6	28.0	100	0.8	1.3	0.013	43.5	300	3	0.010	N	3.1			
N-10	0.62	44.7	26.8	100	0.8	1.3	0.013	43.5	140	2.25	0.016	N	1.1			
N-11	0.28	37.0	22.2	100	0.8	2.0	0.020	36.1	100	1.25	0.013	N	0.9			
N-12	0.23	40.9	24.6	100	0.8	1.5	0.015	40.5	60	1	0.017	N	0.5			
N-13	0.43	36.2	21.7	100	0.8	2.0	0.020	36.1	20	0.25	0.013	N	0.2			
N-14	0.28	34.8	20.9	70	0.8	0.8	0.011	34.8								
N-15	0.23	38.2	22.9	100	0.8	1.8	0.018	38.0	20	0.25	0.013	N	0.2			
N-16	0.29	38.2	22.9	100	0.8	1.8	0.018	38.0	20	0.25	0.013	N	0.2			

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

DRAINAGE AREA CALCULATION - NORTH 1 AND
OVERALL TIME OF CONCENTRATION

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

CD-602 | 58 OF 89

C:\USERS\YAMAGUCH\ROTY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-C-DR-PLAN.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/27/2021 10:39 AM
YAMAGUCH, RIA

BARRICADING SUMMARY TABLE

STREETS

STREET	CLASSIFICATION	PROTECTION	STREET FROM	STREET TO	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION	COMMENTS
S. MOPAC EXPY SERVICE ROAD SOUTH BOUND	ARTERIAL	N/A	MONTEREY OAKS BLVD	W. WILLIAM CANNON DRIVE	TRAIL CONSTRUCTION	SEE SHEET CT-101, CT-001	24 HOURS	9 MONTHS	
HOME DEPOT BOULEVARD	COLLECTOR	N/A	BRODIE LANE	HOME DEPOT BLVD CUL-DE-SAC	TRAIL CONSTRUCTION	SEE SHEET CT-102, CT-001	24 HOURS	9 MONTHS	
BEN GARZA LANE	COLLECTOR	N/A	BRODIE LANE	SO MOPAC EXPY SERVICE ROAD NORTH BOUND	TRAIL CONSTRUCTION	SEE SHEET CT-101, CT-001	24 HOURS	9 MONTHS	

INTERSECTIONS

STREET INTERSECTION	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION	COMMENTS

RIGHT OF WAY MANAGEMENT STANDARD NOTES

1. CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY (ROW) PERMIT AND TRAFFIC CONTROL PLAN (TCP) IN ELECTRONIC OR PAPER FORMATS ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
2. CONTRACTOR SHALL PROVIDE NOTIFICATION, AS PER THE LATEST MOBILITY GUIDELINES (MG-04).
3. UNLESS OTHERWISE APPROVED BY THE ROW DIVISION OF AUSTIN TRANSPORTATION DEPARTMENT (ATD): A.) ONLY ONE PHASE OF A TCP MAY BE SET AT ANY ONE TIME, AND B.) INITIAL SETUP AND PHASE CHANGES OF LONG-TERM WORK ZONES SHALL BE INSTALLED ON WEEKENDS.
4. ONCE TRAFFIC CONTROL HAS BEEN SET, THE AUTHORIZED AND COMPETENT REPRESENTATIVE FROM THE PROJECT TEAM/BARRICADE COMPANY WILL COMPLETE AND UPLOAD THE "CONTRACTOR'S SELF-INSPECTION CHECKLIST" FORM. SEE FORM AND DETAILED INSTRUCTIONS HERE HTTPS://WWW.AUSTINTEXAS.GOV/PAGE/RIGHT-WAY-TRAFFIC-CONTROL
5. FOR ROW VIOLATIONS, AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. SEE CURRENT FEE SCHEDULE HERE: HTTPS://WWW.AUSTINTEXAS.GOV/SITES/DEFAULT/FILES/FILES/TRANSPORTATION/RIGHT_OF_WAY/APPROVED_ROW_FEES.PDF
6. EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN TO TRAFFIC. TEMPORARY PAVING SHALL BE DONE ACCORDING TO CITY OF AUSTIN (COA) STANDARD DETAIL 1100S-4 (FOR HMAC OR PCC PAVEMENTS). FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 5 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN FOR REVIEW BY THE CITY.
7. PEDESTRIAN ROUTES IN AND AROUND THE WORK ZONE, INCLUDING CONSTRUCTION ENTRANCES, TEMPORARY WALKING PATHS, BYPASSES, COVERED WALKWAYS, AND DETOURS, MUST REMAIN ACCESSIBLE AND ADA COMPLIANT THROUGHOUT THE PROJECT.
8. ALL APPLICABLE SAFEGUARDS SHALL BE IN PLACE PER CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE, TO INCLUDE PEDESTRIAN PROTECTIONS PER SECTION 3306.
9. "CONSTRUCTION ENTRANCE AHEAD" SIGNS MUST BE PLACED AT ALL APPROACHES TO CONSTRUCTION ENTRANCES, UNLESS OTHERWISE SHOWN ON THE APPROVED TCP.
10. EXISTING DRIVEWAYS SHALL NOT BE CLOSED EXCEPT WITH ADVANCE NOTICE TO THE AFFECTED BUSINESSES/RESIDENCES AND APPROVAL FROM THE ROW DIVISION OF ATD.
11. ALL TRAFFIC CONTROL DEVICES INCLUDING PROTECTIVE BARRIERS MUST BE CRASHWORTHY AND INSTALLED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CRASHWORTHINESS SHALL BE DETERMINED PER MASH TESTING REQUIREMENTS.
12. OVERNIGHT PROTECTION OF WORK ZONES AND STORAGE OF MATERIAL/EQUIPMENT SHALL BE ACCORDING TO COA STANDARD DETAIL 804S-4.
13. THE NAME OF THE BARRICADE CONTRACTOR SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH COA STANDARD DETAIL 804S-5.
14. THE CITY'S TRAFFIC ENGINEER OR INSPECTOR MAY MAKE OR REQUIRE FIELD ADJUSTMENTS TO ADDRESS ISSUES OF SAFETY AND MOBILITY.
15. IF EXISTING CAPITAL METRO BUS STOPS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL OR DETOUR AREA, THE CONTRACTOR SHALL CONTACT CAPITAL METRO (LAURIE MICHEL AT 512-621-5713 (MOBILE)/ 512-369-7701 (WORK), LAURIE.MICHEL@CAPMETRO.ORG), OR SERVICE.IMPACTS@CAPMETRO.ORG, TWO (2) WEEKS PRIOR TO SETTING UP THE TRAFFIC CONTROL DEVICES IN ORDER TO COORDINATE POTENTIAL BUS-STOP RELOCATION OR ANY OTHER RELATED ISSUES.
16. IF EXISTING SIGNALIZED INTERSECTIONS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL AREA, THE CONTRACTOR SHALL CONTACT ATD – SIGNALS DIVISION AT (512) 974-4075, ONE WEEK PRIOR TO SETTING TRAFFIC CONTROL DEVICES.
17. THE RIGHT OF WAY SHALL BE RETURNED TO FULL USE AT THE END OF THE APPROVED WORK HOURS.
18. CONTRACTORS SHALL ADHERE TO ALL ROW SPECIAL EVENT ACTIVITY RESTRICTIONS, AS PER THE LATEST MOBILITY GUIDELINES (MG-08).
19. PROJECTS THAT ARE ROUTED THROUGH THE DAPCZ PROCESS ARE REQUIRED TO COORDINATE WITH THE OFFICE OF SPECIAL EVENTS (512-9741000 OR TRANSPORTATIONSPECIALEVENTS@AUSTINTEXAS.GOV), IN CONJUNCTION WITH THE ROW DIVISION OF ATD. VISIT CITY STAGE FOR SCHEDULED EVENTS FOR ALL OF AUSTIN.
20. PURSUANT TO CITY CODE 9-2-3, ROW WORK MUST NOT MAKE NOISE AUDIBLE TO AN ADJACENT BUSINESS OR RESIDENCE BETWEEN 10:30PM AND 7:00AM OR OPERATE A MACHINE THAT SEPARATES, GATHERS, GRADES, LOADS, OR UNLOADS SAND, ROCK, OR GRAVEL WITHIN 600 FEET OF A RESIDENCE, CHURCH, HOSPITAL, HOTEL, OR MOTEL BETWEEN 7:00PM AND 6:00AM, EXCEPT FOR INSTALLATION OF CONCRETE AUTHORIZED BY A SEPARATE NON-PEAK HOUR CONCRETE POUR PERMIT ISSUED UNDER CITY CODE SECTION 9-2-21.

EXCEPTIONS TABLE

NOTE #	EXPLANATION OF EXCEPTION

STREET PROTECTION & CLASSIFICATION:

STREET PROTECTION AND CLASSIFICATION ARE BASED ON PUBLIC WORKS PROTECTION STREETS LIST DATED JANUARY 2, 2020.

NOTES FOR CONTRACTOR:

1. CONTRACTOR TO MAINTAIN ACCESS TO ALL RESIDENT'S DRIVEWAYS DURING CONSTRUCTION.
2. ONE WEEK PRIOR TO CONSTRUCTION, PUBLIC OUTREACH IS REQUIRED AND CONTRACTOR TO CALL THE 311 SYSTEM.
3. EXISTING SIDEWALKS SHALL REMAIN ACCESSIBLE AT ALL TIMES. IF NEEDED, A CONSTRUCTION FENCE SHALL BE PLACED FOR PEDESTRIAN SAFETY.
4. CONTRACTOR MAY USE COA STANDARD DETAIL 804S-1,SHEET 9 OF 9 FOR SIGN SPACING.

MESSAGE BOARD TO READ AS FOLLOWS:

"UTILITY _ " "STARTING" "FOLLOW _ _"
"WORK _ _ _ _" "# # / # # _ _ _" "DETOUR _ _"

(# - THE MONTH AND DAY IN TWO DIGIT NUMBERS)

(MESSAGE BOARD ADVISES OF CONSTRUCTION PLACED A WEEK PRIOR TO CONSTRUCTION, INSTALL NOT TO BLOCK SIDEWALK)

SPECIAL PEDESTRIAN ACCOMMODATION NOTES:

1. PEDESTRIAN TRAFFIC MUST BE MAINTAINED. SIDEWALK CLOSURES USING COA STANDARD 804S-1, 4 OF 9 ARE ACCEPTABLE ONLY IN SITUATIONS WHERE PEDESTRIANS CAN BE DETOURED AROUND THE CLOSURE WITHIN ONE BLOCK, AND/OR WITHIN A DISTANCE OF 1,000 FEET. PEDESTRIAN STREET CROSSINGS CAN BE MADE AT DESIGNATED CROSSWALKS ONLY.
2. IF A PEDESTRIAN DETOUR IS NOT FEASIBLE, THE CONTRACTOR SHALL PROVIDE COMPETENT/TRAINED PERSONNEL TO ASSIST PEDESTRIANS AROUND THE ACTIVE WORK ZONE SAFELY.

CAPITAL METRO BUS STOP COORDINATION:

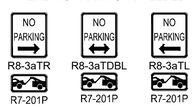
1. FOR ANY CONSTRUCTION THAT WILL POTENTIALLY IMPACT BUS ROUTES OR BUS STOPS FOR THE CAPITAL METRO SERVICE AREA, CONTACT MARK A. HERRERA (512) 369-6548 OR MARK.HERRERA@CAPMETRO.ORG AT LEAST 48 HOURS PRIOR TO TRAFFIC CONTROL SET UP.

ALLEY CLOSURE COORDINATION:

1. ALLEY CLOSURES REQUIRE AUSTIN RESOURCE RECOVERY (ARR) COORDINATION WITH LORI SCOTT (512) 974-1028 OR LORI.SCOTT@AUSTINTEXAS.GOV AND AREA BUSINESSES, ONE WEEK IN ADVANCE.

NO PARKING SIGNS:

1. ALL NO PARKING SIGNS MUST BE PLACED AT 45 DEGREE ANGLE TO TRAFFIC, AT 50' MINIMUM / 75' MAXIMUM SPACING, NO MORE THAN 48 HOURS IN ADVANCE. CONTACT DAVID SMITH WITH COA METER SHOP AT (512) 974-1553 TO HOOD METERS.
2. THE SIGN CONFIGURATION LISTED BELOW SHALL APPLY AS IT IS REQUIRED EVERYWHERE WHERE "NO PARKING" IS NEEDED:



REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
UC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TRAFFIC CONTROL NOTES

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES DIVISION

GP-2020-0085.PW

CT-001 | 59 OF 89

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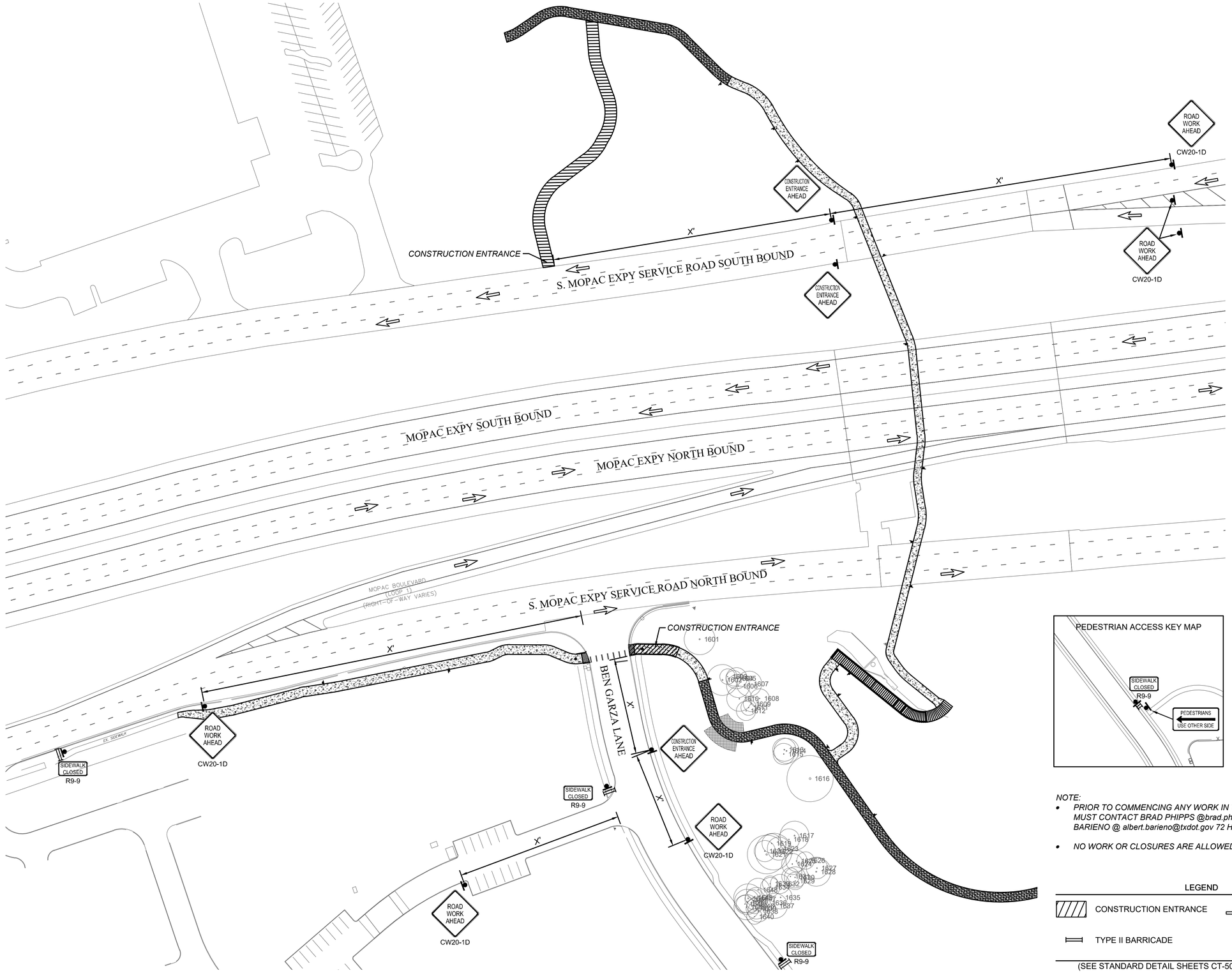

PEDESTRIAN ACCESS KEY MAP

NOTE:

- *PRIOR TO COMMENCING ANY WORK IN TXDOT R.O.W. CONTRACTOR MUST CONTACT BRAD PHIPPS @brad.phipps@txdot.gov AND ALBERT BARIENO @ albert.barieno@txdot.gov 72 HOURS IN ADVANCE.*
- *NO WORK OR CLOSURES ARE ALLOWED ON MOPAC MAIN LANES.*

LEGEND

CONSTRUCTION ENTRANCE	FOR DEPICTION OF TRAFFIC FLOW ONLY (DO NOT PLACE IN FIELD)
TYPE II BARRICADE	TEMPORARY TRAFFIC SIGN

(SEE STANDARD DETAIL SHEETS CT-501, FOR MORE DETAILS)

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
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RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TRAFFIC CONTROL PLAN - SHEET 1 OF 2

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 50 100
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CT-101 | 60 OF 89

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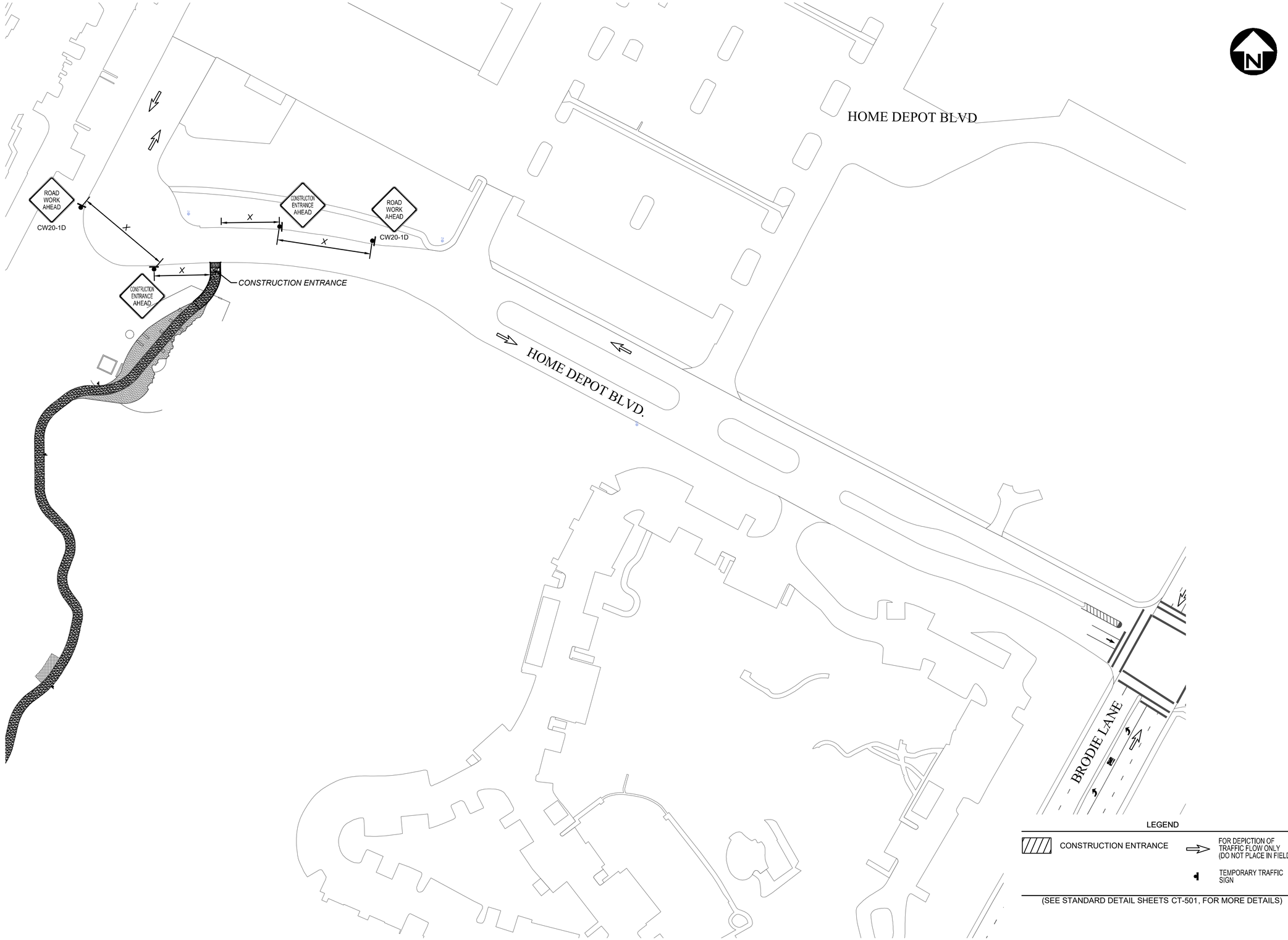

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LÓPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TRAFFIC CONTROL PLAN - SHEET 2 OF 2

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 50 100
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

CT-102 | 61 OF 89

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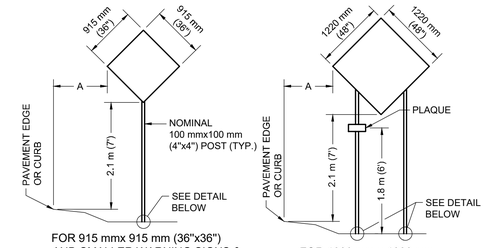
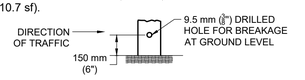
7/27/2021 10:40 AM YAMAGUCHI, RIA



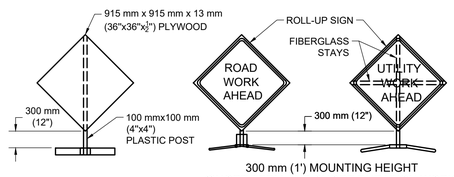
FOR 915 mmx 915 mm (36"x36") AND SMALLER WARNING SIGNS & OTHER SIGNS HAVING AN AREA NOT EXCEEDING 1 sm (10.7 sf).

FOR 1220 mm x 1220 mm (48"x48") WARNING SIGNS.

A: 610 mm (2') MINIMUM (REFER TO TMUTCD)



WOOD POST SIGN SUPPORT USED AS FIXED SIGN SUPPORTS



300 mm (1') MOUNTING HEIGHT (SHORT TERM AND SHORT DURATION WORK)

PORTABLE SIGN SUPPORT

SEE STANDARD 804S-5 SHEET 12 OF 13 AND SHEET 13 OF 13 FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 6 OF 13

1. WARNING SIGNS SHALL BE ORANGE, FLUORESCENT RED-ORANGE OR FLUORESCENT YELLOW-ORANGE IN COLOR. THE FLUORESCENT VERSIONS OF ORANGE PROVIDE HIGHER CONSPICUITY THAN STANDARD ORANGE, ESPECIALLY DURING NIGHT. ALL SIGNS USED AT NIGHT SHALL BE EITHER RETRO-REFLECTIVE, WITH A MATERIAL THAT HAS A SMOOTH, SEALED OUTER SURFACE, OR ILLUMINATED TO SHOW SIMILAR SHAPE AND COLOR BOTH DAY AND NIGHT. SIGN ILLUMINATION MAY BE EITHER INTERNAL OR EXTERNAL. ROADWAY LIGHTING DOES NOT MEET THE REQUIREMENTS FOR SIGN ILLUMINATION.
2. TYPE A FLASHING WARNING LIGHTS MAY BE USED IN CONJUNCTION WITH SIGNS AT NIGHT. STANDARD ORANGE FLAGS MAY BE USED FOR DAY TIME OPERATIONS. HOWEVER, NEITHER LIGHTS NOR FLAGS MAY BLOCK THE SIGN LEGEND.
3. SIGNS SHOULD BE LOCATED ON THE RIGHT-HAND SIDE OF THE ROADWAY. WHEN SPECIAL EMPHASIS IS NEEDED, SIGNS MAY BE PLACE ON BOTH THE LEFT AND RIGHT SIDES OF ROADWAY. SIGNS SHALL BE PLACED ON BOTH THE LEFT AND RIGHT SIDES OF ONE-WAY OR DIVIDED ROADWAYS. SIGNS USED FOR LONG-TERM STATIONARY AND INTERMEDIATE-TERM STATIONARY WORK SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 2.1 m (7'), MEASURED FROM THE BOTTOM OF THE SIGN. THE HEIGHT TO THE BOTTOM OF A SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE 0.3 m (1') LESS THAN THE APPROPRIATE HEIGHT ABOVE.
4. SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, MOBILE CONDITIONS AND EMERGENCIES. SIGNS MOUNTED ON PORTABLE SUPPORTS SHALL BE AT A HEIGHT OF AT LEAST 0.3 m (1'), MEASURED FROM THE BOTTOM OF THE SIGN.
5. ALL SIGN SYSTEMS SHOULD BE CRASHWORTHY. NO SIGN MOUNTS SHALL BLOCK OR IMPEDE SIDEWALKS UNLESS NO OTHER OPTION IS AVAILABLE. ONLY SANDBAGS SHOULD BE USED FOR BALLASTING SIGN MOUNTS.

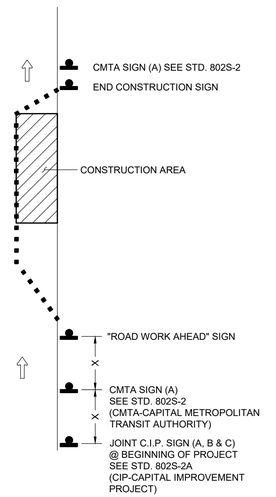
TABLE VI-3 TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

Roadway Classification	Posted Speed	Sign Spacing *	Long-term Stationary Or Intermediate-term Stationary Approaching Warning Signs CW20 Series And CW22-1 Sign		Short-term Stationary Or Short Duration Approach Warning Signs CW22 Series		Other Warning Signs
			Standard	Minimum [4]	Standard	Minimum [4]	Standard
Conven.	KPH (MPH)	meter (feet)	mm (inches)	mm (inches)	mm (inches)	mm (inches)	mm (inches)
	50 (30)	40 (120)	1220x1220 (48x48)	915x915 (36x36)			
	55 (35)	50 (160)			915x915 (36x36)		915x915 (36x36)
	65 (40)	75 (240)					
	70 (45)	100 (320)		Use Std. Size		Use Std. Size	
	80 (50)	120 (400)					
	90 (55)	150 [2] (500)					
	100 (60)	180 [2] (600)			1220x1220 (48x48)		1220x1220 (48x48)
	105 (65)	210 [2] (700)					
	115 (70)	240 [2] (800)					
Exp. or Fwy	**	** [3]			***	***	***

* MINIMUM DISTANCE FROM WORK TO FIRST ADVANCE WARNING SIGN AND/OR DISTANCE BETWEEN EACH ADDITIONAL SIGN.
** FOR TYPICAL SIGN SPACING ON EXPRESSWAYS AND FREEWAYS, REFER TO THE CURRENT ADDITION OF TMUTCD.
*** SMALLER SIGN SIZES MAY BE USED WHERE SIGN DESIGNS HAVE NOT BEEN INCLUDED IN THE "STANDARD HIGHWAY SIGNS DESIGN MANUAL".

1. SPECIAL OR LARGER SIZE SIGNS MAY BE USED AS NECESSARY.
2. DISTANCE BETWEEN SIGNS SHOULD BE INCREASED AS REQUIRED TO HAVE 450 m (1500') OR MORE ADVANCE WARNING.
3. DISTANCE BETWEEN SIGNS SHOULD BE INCREASED AS REQUIRED TO HAVE A 0.8 km (½ MILE) OR MORE ADVANCE WARNING.
4. FOR USE ONLY ON SECONDARY ROADS OR CITY STREETS WHERE SPEEDS ARE LOW.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 7 OF 13



NOTES:

1. OTHER REQUIRED SIGNS NOT SHOWN FOR CLARITY.
2. "X" DISTANCES SAME AS STANDARD TABLE SHOWN ON SHEET 13 OF 13.

SEE STANDARD 804S-5 SHEET 12 OF 13 AND SHEET 13 OF 13 FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TRAFFIC CONTROL SIGNS	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 8 OF 13

1. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES AND WARNING SIGNS SHALL BE FURNISHED, PLACED, CONSTRUCTED AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES AND FLAGGER OPERATIONS EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM CONTROL DEVICES (TMUTCD), THE CITY OF AUSTIN STANDARD SPECIFICATIONS SERIES 800 AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL. OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. IF A CONFLICT ARISES THEN THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL NOTIFY THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024 NO LATER THAN THE MONDAY OF THE WEEK DURING WHICH THE CONTRACTOR INTENDS TO SET UP BARRICADES TO START CONSTRUCTION.
3. PROPOSED CONSTRUCTION TRAFFIC MOVEMENTS MAY REQUIRE EXISTING SIGNAL HEADS TO BE RELOCATED. THE CITY OF AUSTIN WILL REVIEW SIGNAL HEAD LOCATIONS DURING CONSTRUCTION AND PERFORM THE REQUIRED ADJUSTMENTS. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024, THREE (3) DAYS PRIOR TO PLACEMENT ANY TRAFFIC CONTROLS WHICH MAY REQUIRE SIGNAL HEAD ADJUSTMENTS/RELOCATION.
4. THE CONTRACTOR SHALL PROVIDE ONE (1) FULL-TIME OFF-DUTY, UNIFORMED AUSTIN POLICE DEPARTMENT CERTIFIED PEACE OFFICER AND ONE (1) VEHICLE OF THE TYPE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR TEMPORARY LANE CLOSURES WHEN UNDER SEALING, MILLING, PAVING AND WHEN WORKING IN INTERSECTIONS AS PART OF THE TRAFFIC CONTROL OPERATIONS. THE PEACE OFFICER SHALL BE ABLE TO SHOW PROOF OF CERTIFICATION BY THE TEXAS COMMISSION ON LAW ENFORCEMENT OFFICER STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY ALL OTHER GOVERNMENTAL AGENCIES WHOSE RIGHTS-OF-WAY ARE AFFECTED BY HIS WORK ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT THEY MAY NEED.
6. THE CONTRACTOR SHALL MAINTAIN ONE (1) DUST-FREE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED THE ENGINEER OR DESIGNATED REPRESENTATIVE.
7. THERE SHALL BE A MINIMUM OF THREE (3) METERS (10 FEET) CLEAR WIDTH FOR EACH LANE OF TRAFFIC IN CHANNELIZED AREAS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE AT LEAST 24 HOUR WRITTEN NOTICE OF LIMITED ACCESS TO AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL PROVIDE BUSINESS ACCESS SIGNS AS NEEDED TO INFORM DRIVERS OF THE LOCATIONS OF ALL DRIVEWAYS.
9. TEMPORARY LANE CLOSURES IN THE CENTRAL BUSINESS DISTRICT (CBD) OR ON ARTERIAL STREETS SHALL NOT BE PERMITTED DURING THE HOURS OF 7 AM TO 9 AM AND 4 PM TO 6PM MONDAY THROUGH FRIDAY UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE TRANSPORTATION DIVISION.
10. TRAFFIC CONTROL SHOWN ON STANDARD DETAILS IS TYPICAL. ADDITIONAL SIGNING AND/OR BARRICADING, AS WELL AS TEMPORARY PAVEMENT MARKINGS AND OBLITERATION/RESTORATION OF EXISTING PAVEMENT MARKINGS, MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS. FIELD ADJUSTMENTS TO TRAFFIC CONTROLS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM NO. 803S "BARRICADES, SIGNS AND TRAFFIC HANDLING".
11. THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON FOR TRAFFIC CONTROL. THE COMPETENT PERSON SHALL MAKE INSPECTIONS OF THE TRAFFIC CONTROL DEVICES AT LEAST TWO (2) TIMES A DAY (ONCE AT THE BEGINNING OF THE DAY AND ONCE AT THE END OF THE DAY), INCLUDING NON-WORKING DAYS, ENSURING THAT ALL DEVICES ARE IN THEIR PROPER PLACE AND ARE IN WORKING ORDER.
12. ALL DEVICES SHALL BE MADE USING MATERIALS LISTED ON THE TxDOT APPROVED PRODUCTS LIST.
13. ALL PERSONS WORKING WITHIN THE RIGHT-OF-WAY SHALL WEAR A BRIGHTLY COLORED SAFETY VEST. FOR NIGHTTIME WORK THE VEST SHALL BE RETRO-REFLECTIVE.
14. WHEN AN INTERSECTION IS CLOSED FOR CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION IN SUCH A MANNER THAT THE CLOSURE TIME IS MINIMIZED.
15. THE CONTRACTOR SHALL NOTIFY THE CAPITAL METRO DISPATCHER AT 385-4295 ONE (1) WEEK PRIOR TO LANE CLOSURES ADJACENT TO BUS STOPS.

DURATION OF WORK

WORK DURATION IS A MAJOR FACTOR IN DETERMINING THE NUMBER AND TYPES OF DEVICES USED IN TEMPORARY TRAFFIC ZONES. THE FIVE (5) CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION ARE AS FOLLOWS:

- LONG-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 DAYS.
- INTERMEDIATE-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FROM OVERNIGHT TO 3 DAYS.
- SHORT-TERM STATIONARY-DAYTIME WORK THAT OCCUPIES A LOCATION FROM 1 TO 12 HOURS.
- SHORT-DURATION WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE-WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
50	30	$L=\frac{WS^2}{60}$	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (50-65)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	20-25 (65-80)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45	L=WS	135 (450)	150 (495)	165 (540)	13 (45)	25-30 (80-100)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-110)	120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-130)	150 (500)
95	80		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (130-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19 (65)	45-50 (150-165)	210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	50-55 (165-180)	240 (800)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SIGNING AND BARRICADING CROSSROAD & DRIVEWAY	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 12 OF 13

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		GENERAL TRAFFIC CONTROL NOTES	
RECORD COPY SIGNED BY SAM ANGOORI *01/04/10* ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 13 OF 13

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745 ON 7/27/2021

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TRAFFIC CONTROL DETAILS

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES DIVISION

GP-2020-0085.PW

CT-501 | 62 OF 89

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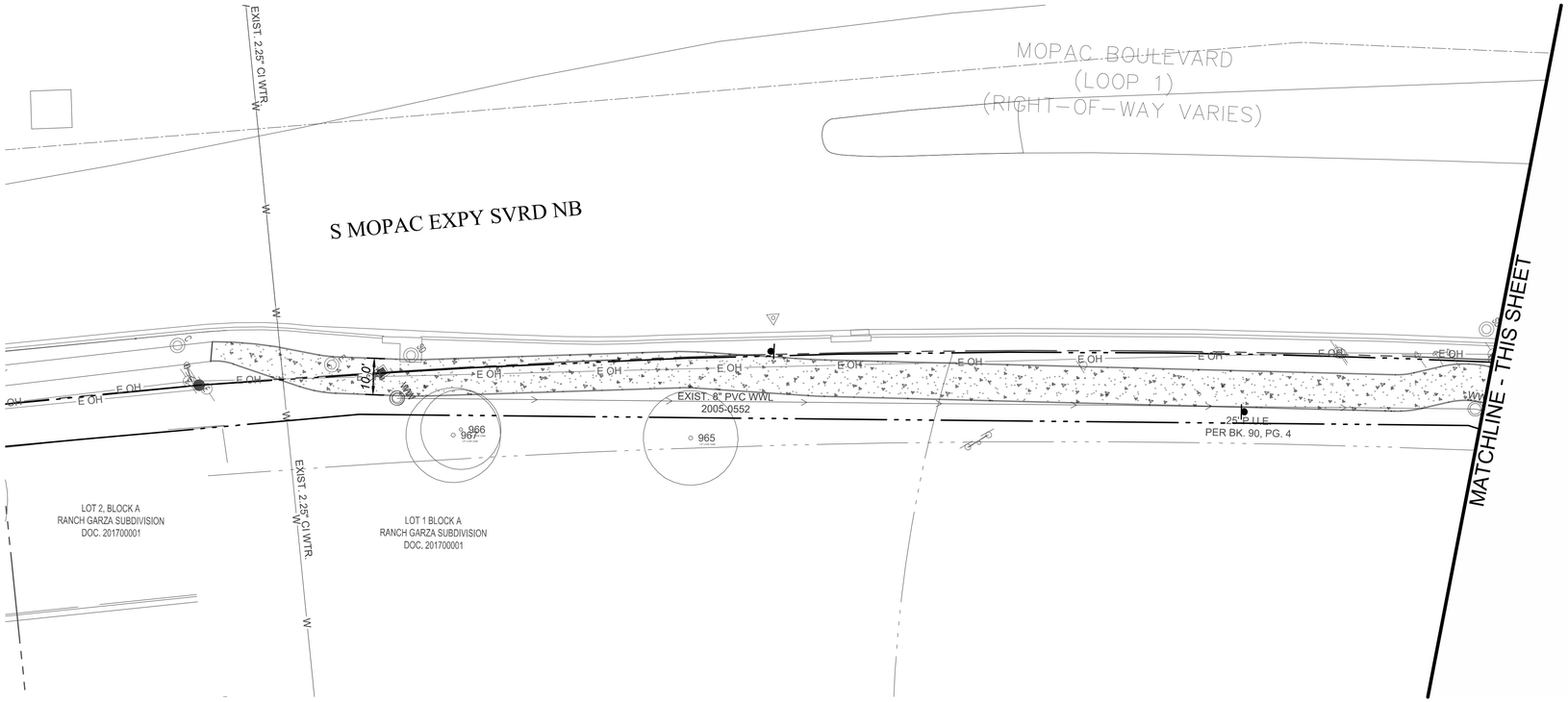

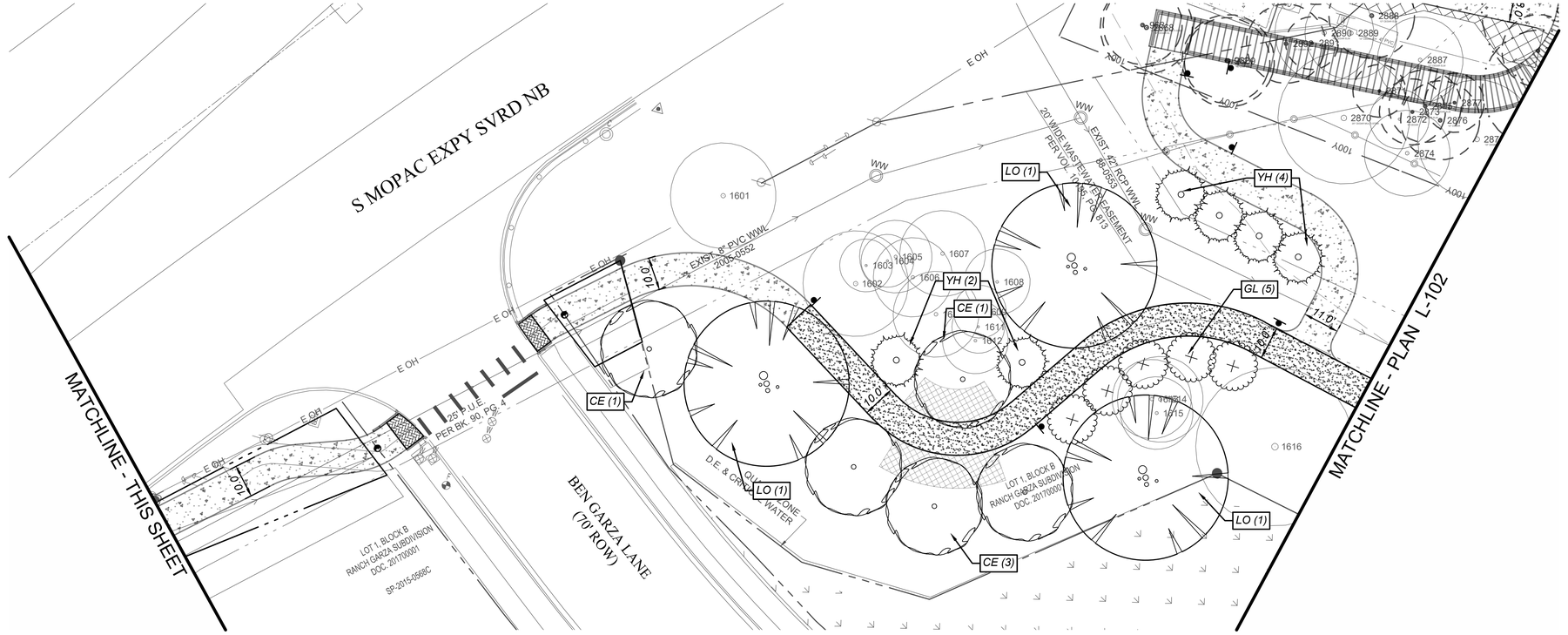

TREE LEGEND

EX. TREE TO REMAIN

EX. DEAD TREES

EX. TREE TO REMOVED

NOTES:

1. REFER TO LANDSCAPE PLANT LIST SHEET L-002.
2. FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602.
3. HARDWOOD MULCH 3" THICK, 5' DIAMETER RINGS TO BE PLACED AROUND ALL NEW TREES
4. HARDWOOD MULCH 3" THICK TO BE PLACED AT THE CITY OF SUNSET VALLEY TRAILHEAD AND ALL CITY OF SUNSET VALLEY PLANTINGS ALONG TRAIL

PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 1 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-101 | 63 OF 89

C:\USERS\YAMAGUCHIRC\CITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-L-LS-PLAN DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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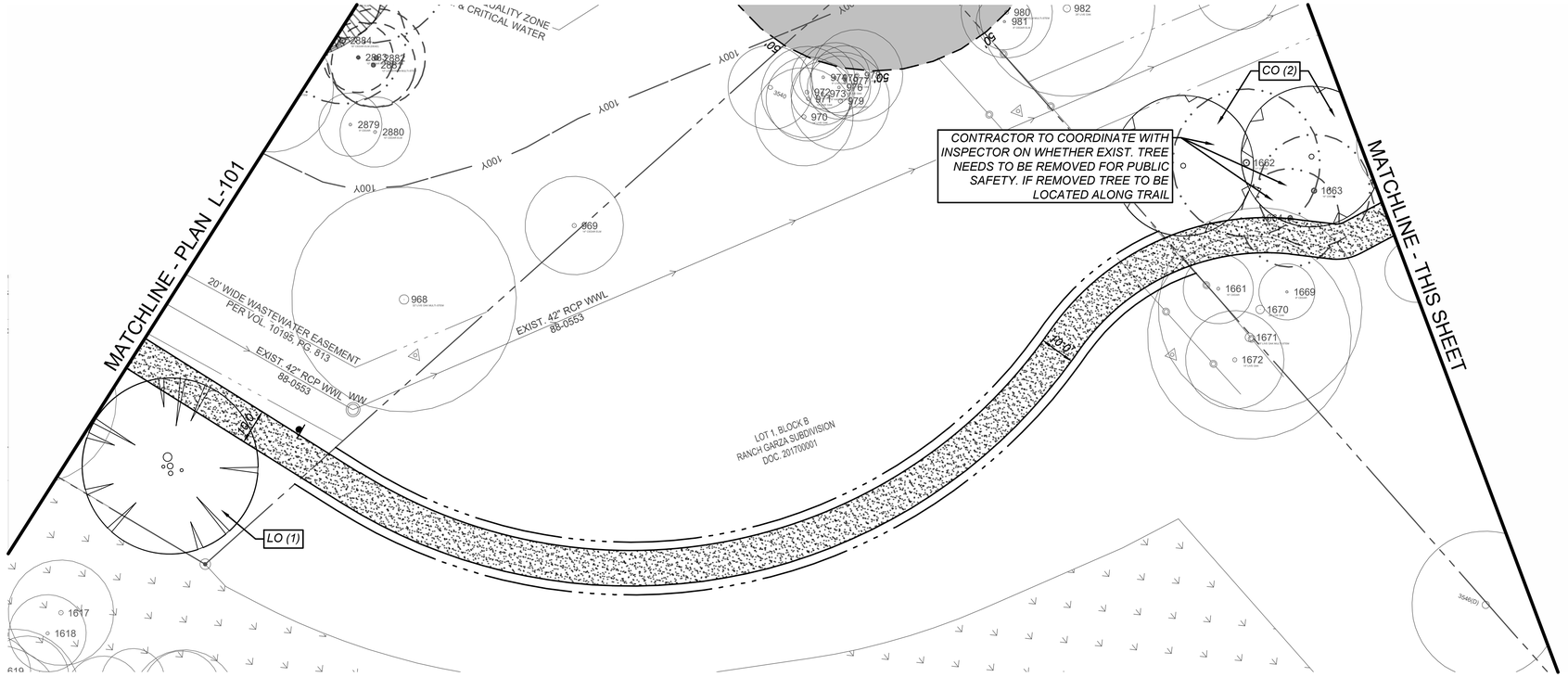

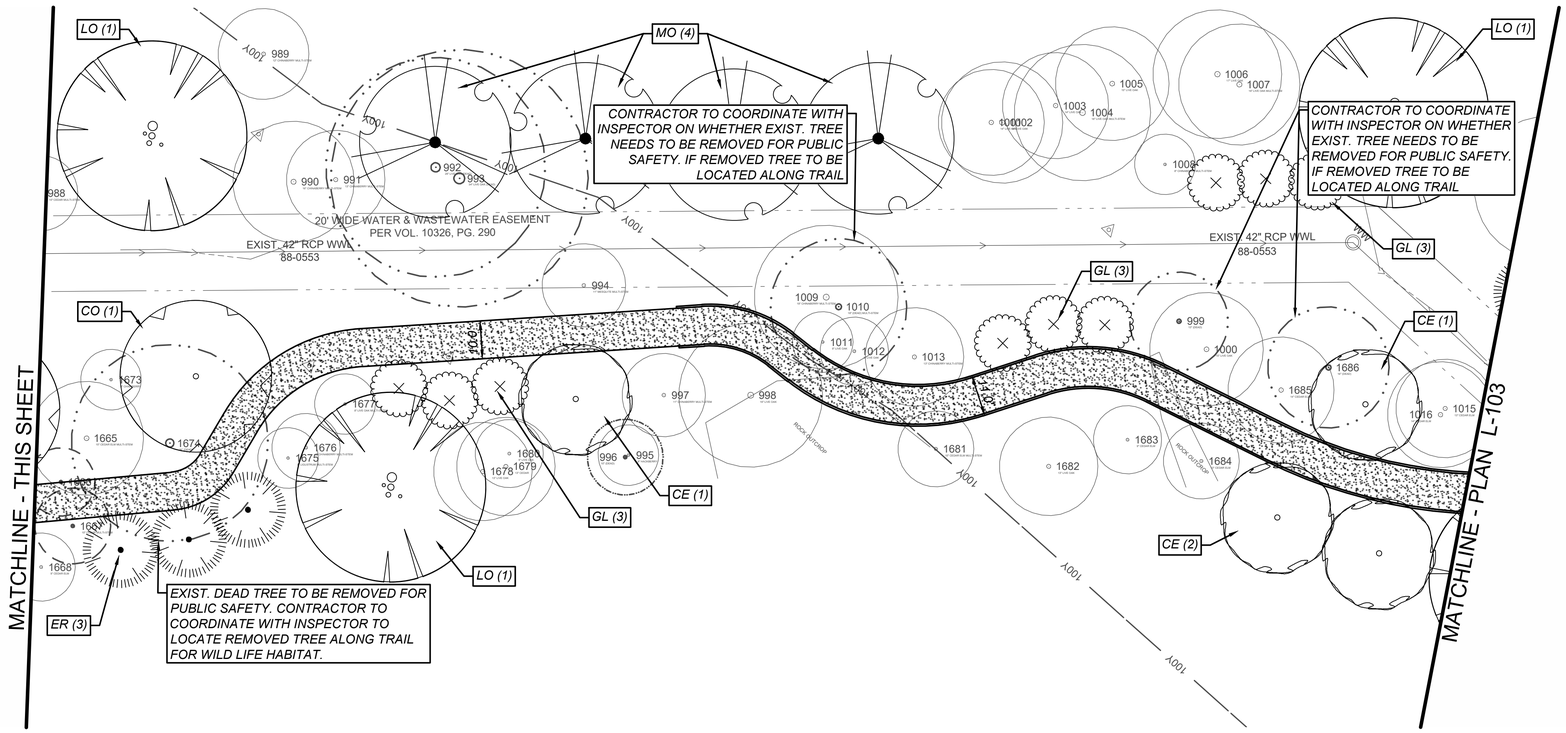

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED

NOTES:

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4. HARDWOOD MULCH 3" THICK TO BE PLACED AT THE CITY OF SUNSET VALLEY TRAILHEAD AND ALL CITY OF SUNSET VALLEY PLANTINGS ALONG TRAIL

PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RAY

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 2 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-102 | 64 OF 89

C:\USERS\YAMAGUCHIRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-L-LS-PLAN DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB

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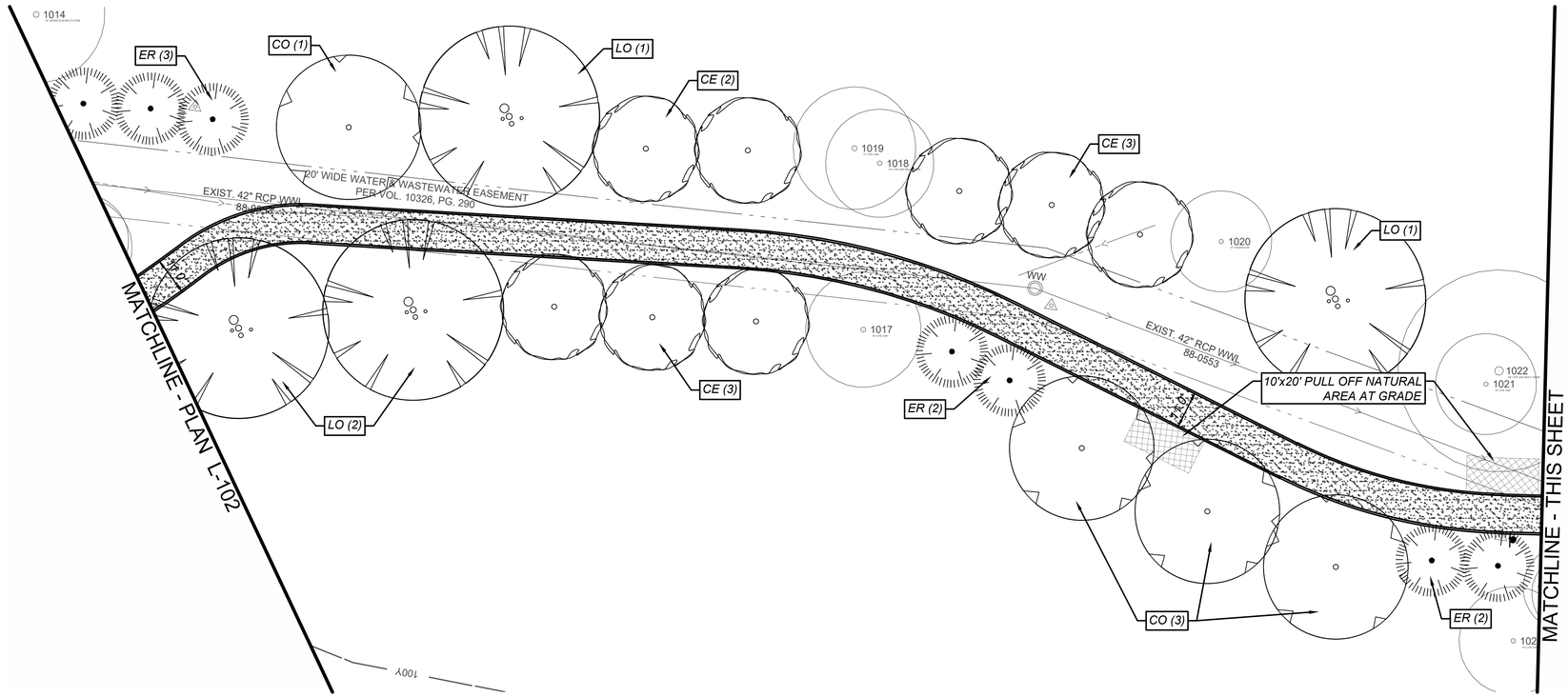

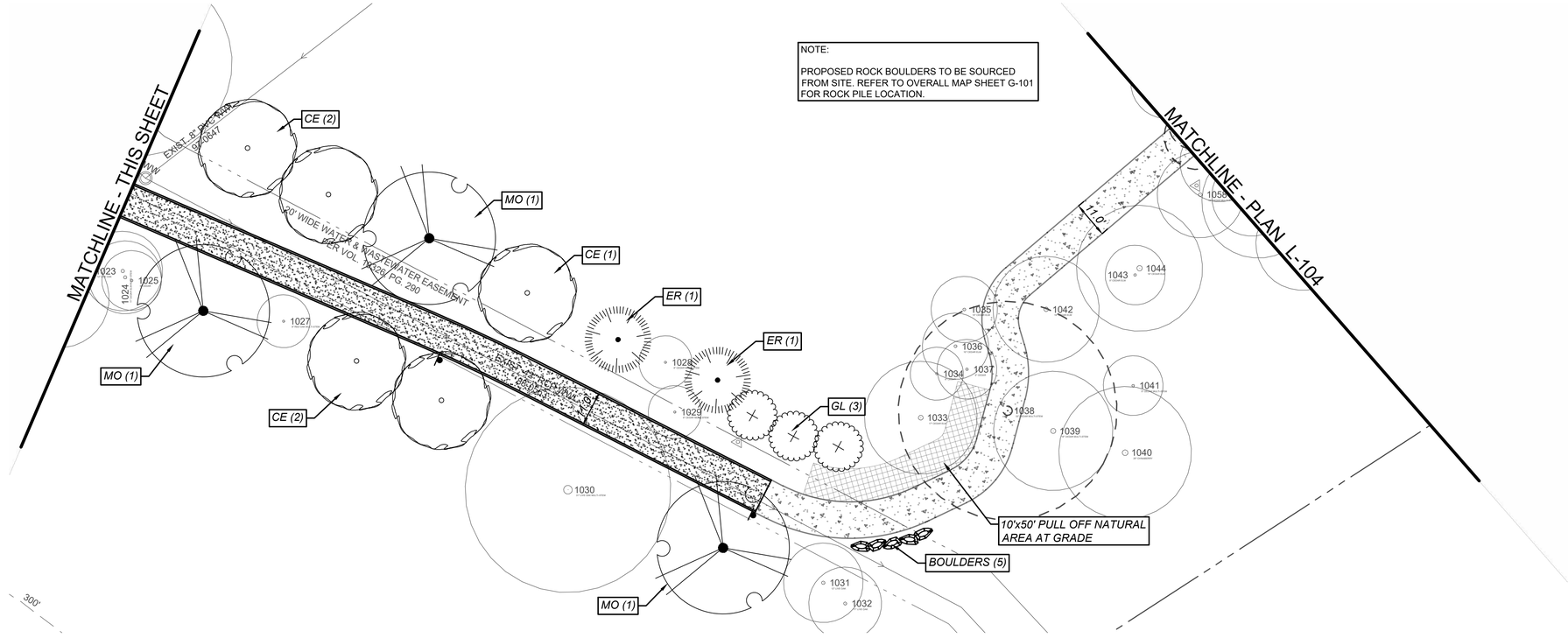

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED

NOTES:

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PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 3 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-103 | 65 OF 89

C:\USERS\YAMAGUCHIRC\TY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\VCTR-L-LS-PLAN DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
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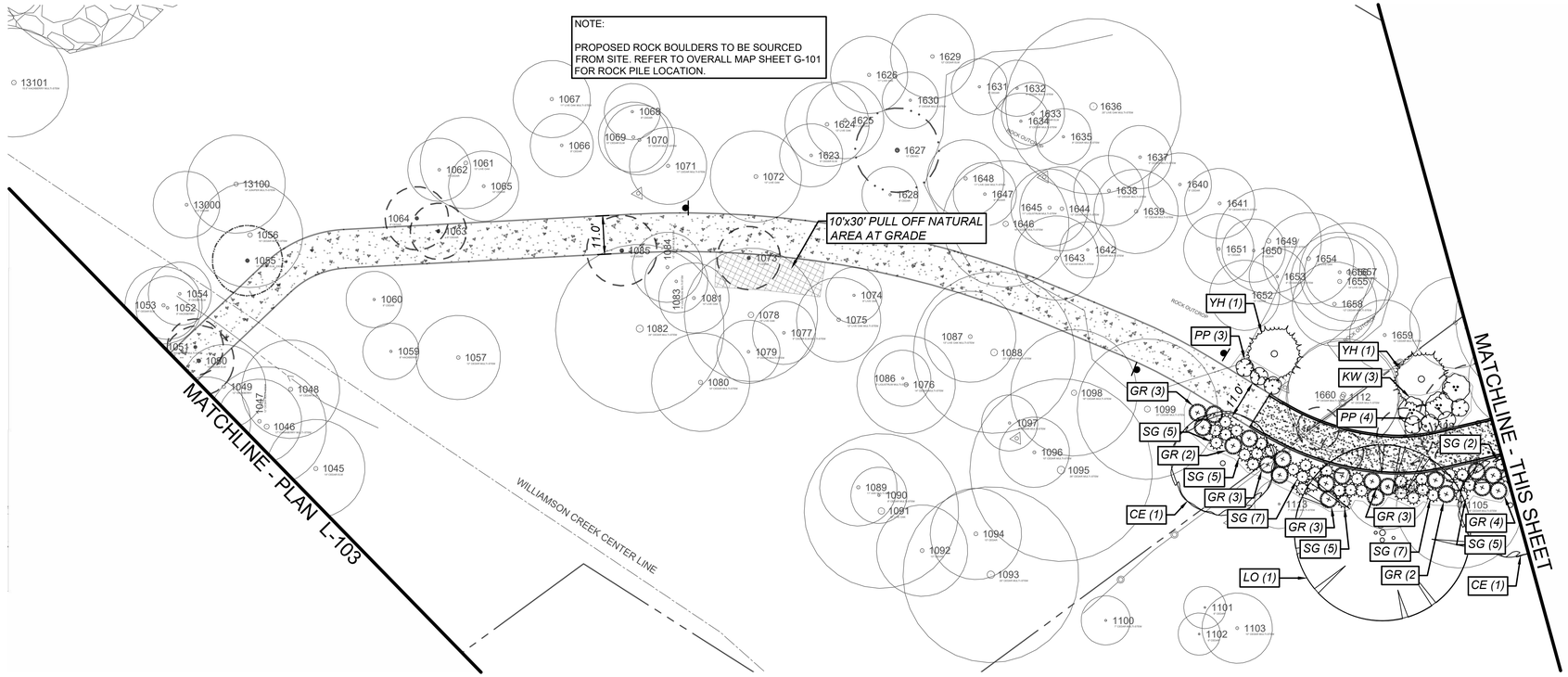

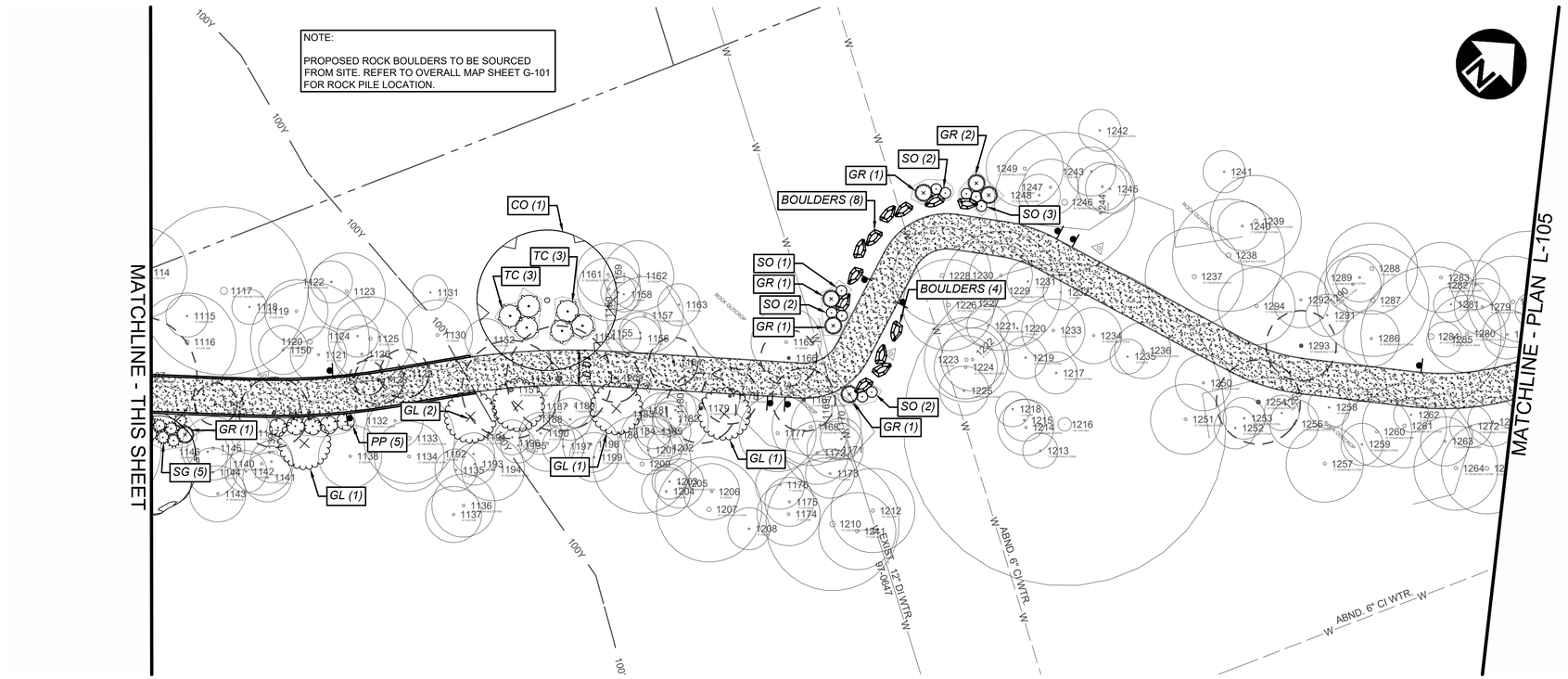

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED

NOTES:

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PLANT KEY	
ABBREVIATION	COMMON NAME
AG	AGARITA
BG	BASKET GRASS
LA	LANTANA
RR	ROCK ROSE
PP	SPINELESS PRICKLY PEAR
SO	SIDE OATS GRAMMA
SG	SWITCH GRASS
TC	TURK'S CAP
GR	TALL GOLDENROD

PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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DC # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 4 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-104 | 66 OF 89

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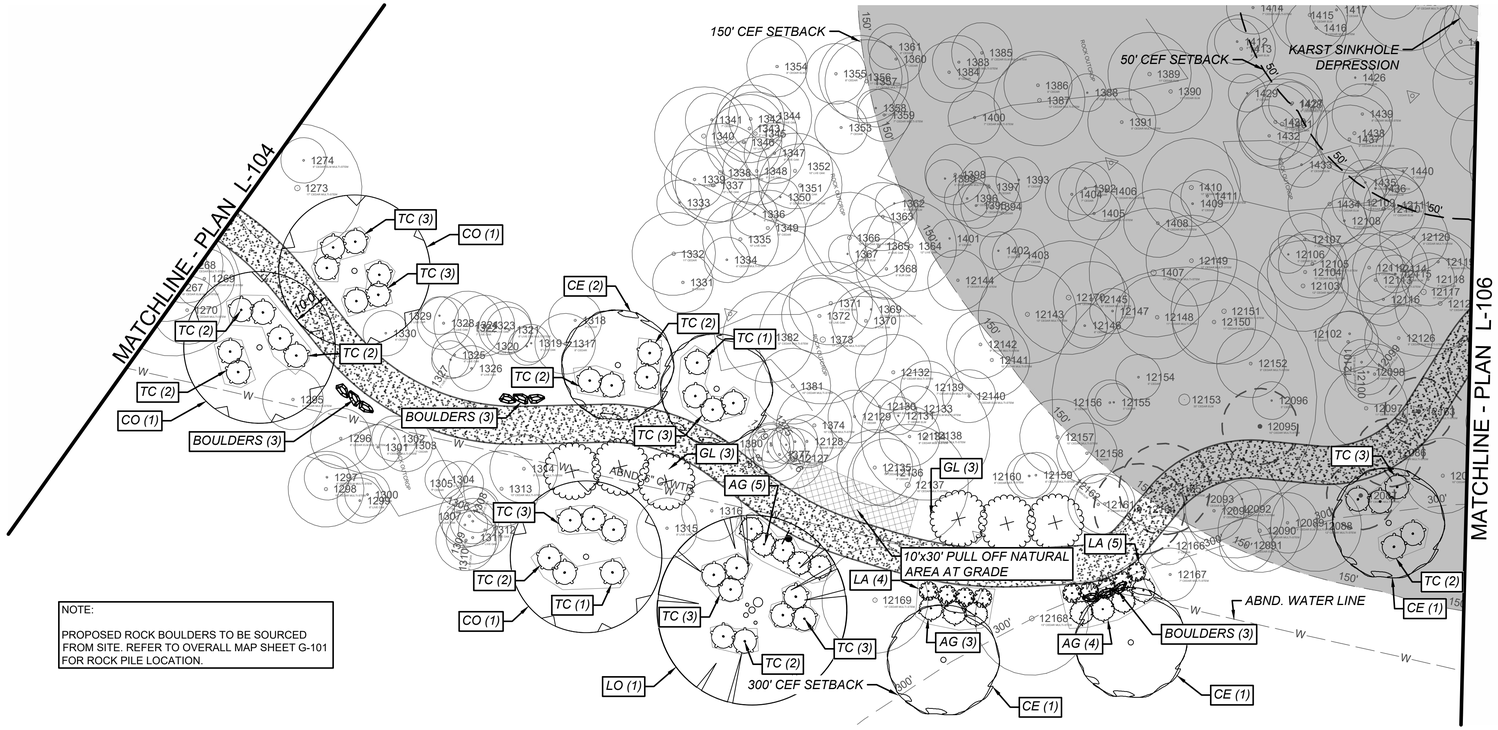

NOTE:

PROPOSED ROCK BOULDERS TO BE SOURCED FROM SITE. REFER TO OVERALL MAP SHEET G-101 FOR ROCK PILE LOCATION.

NOTES:

1. REFER TO LANDSCAPE PLANT LIST SHEET L-002.
2. FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602.
3. HARDWOOD MULCH 3" THICK, 5' DIAMETER RINGS TO BE PLACED AROUND ALL NEW TREES
4. HARDWOOD MULCH 3" THICK TO BE PLACED AT THE CITY OF SUNSET VALLEY TRAILHEAD AND ALL CITY OF SUNSET VALLEY PLANTINGS ALONG TRAIL

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED
- EX. TREE TO REMOVED IN SUNSET VALLEY

PLANT KEY	
ABBREVIATION	COMMON NAME
AG	AGARITA
BG	BASKET GRASS
LA	LANTANA
RR	ROCK ROSE
PP	SPINELESS PRICKLY PEAR
SO	SIDE OATS GRAMMA
SG	SWITCH GRASS
TC	TURK'S CAP
GR	TALL GOLDENROD

PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 5 OF 9

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-105 | 67 OF 89

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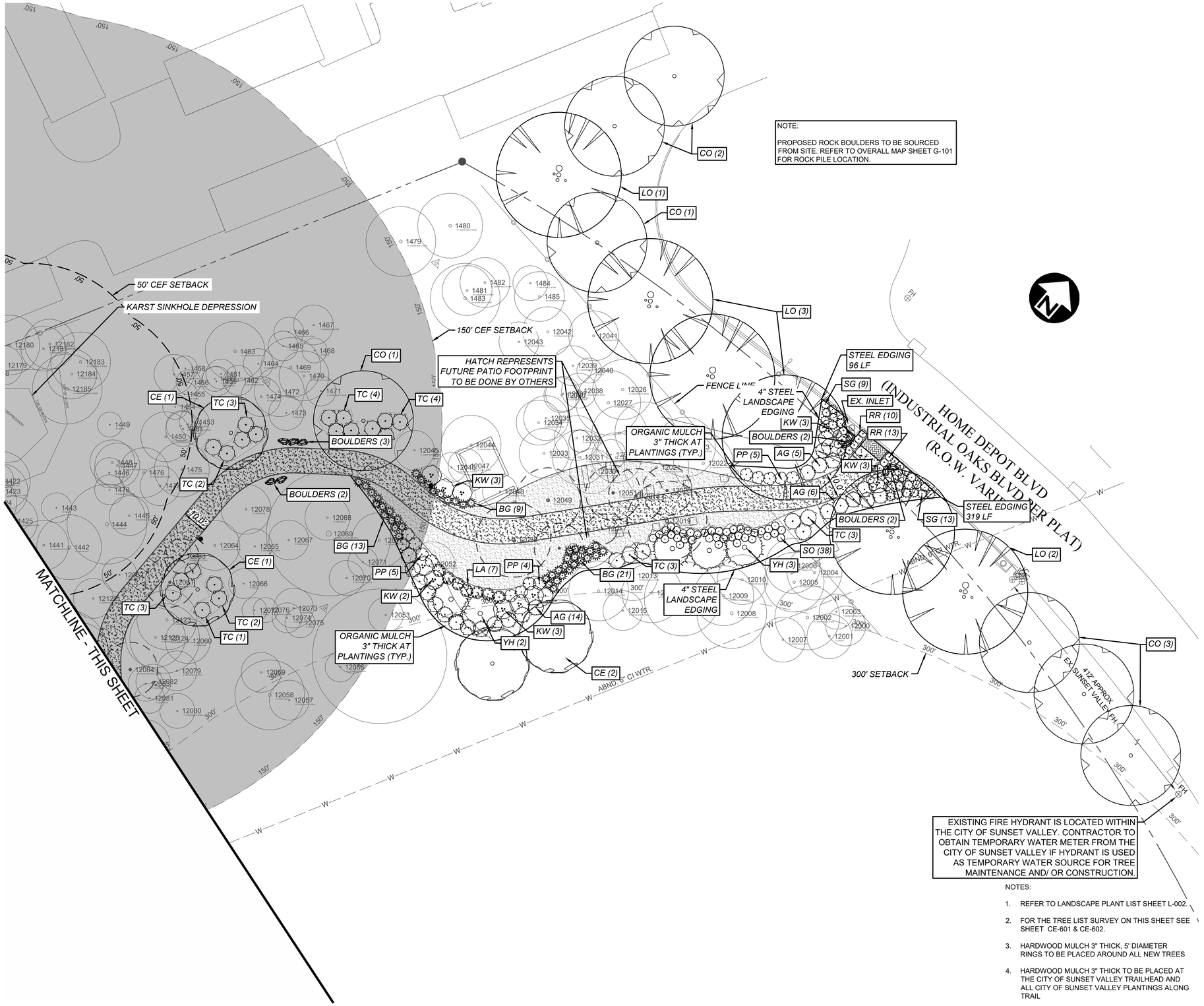

NOTE:

PROPOSED ROCK BOULDERS TO BE SOURCED FROM SITE. REFER TO OVERALL MAP SHEET G-101 FOR ROCK PILE LOCATION.

TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED
- EX. TREE TO REMOVED IN SUNSET VALLEY

PLANT KEY	
ABBREVIATION	COMMON NAME
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RR	ROCK ROSE
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PLANT KEY	
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GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

EXISTING FIRE HYDRANT IS LOCATED WITHIN THE CITY OF SUNSET VALLEY. CONTRACTOR TO OBTAIN TEMPORARY WATER METER FROM THE CITY OF SUNSET VALLEY IF HYDRANT IS USED AS TEMPORARY WATER SOURCE FOR TREE MAINTENANCE AND/ OR CONSTRUCTION.

NOTES:

1. REFER TO LANDSCAPE PLANT LIST SHEET L-002.
2. FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602.
3. HARDWOOD MULCH 3" THICK, 5' DIAMETER RINGS TO BE PLACED AROUND ALL NEW TREES
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REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 6 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-106 | 68 OF 89

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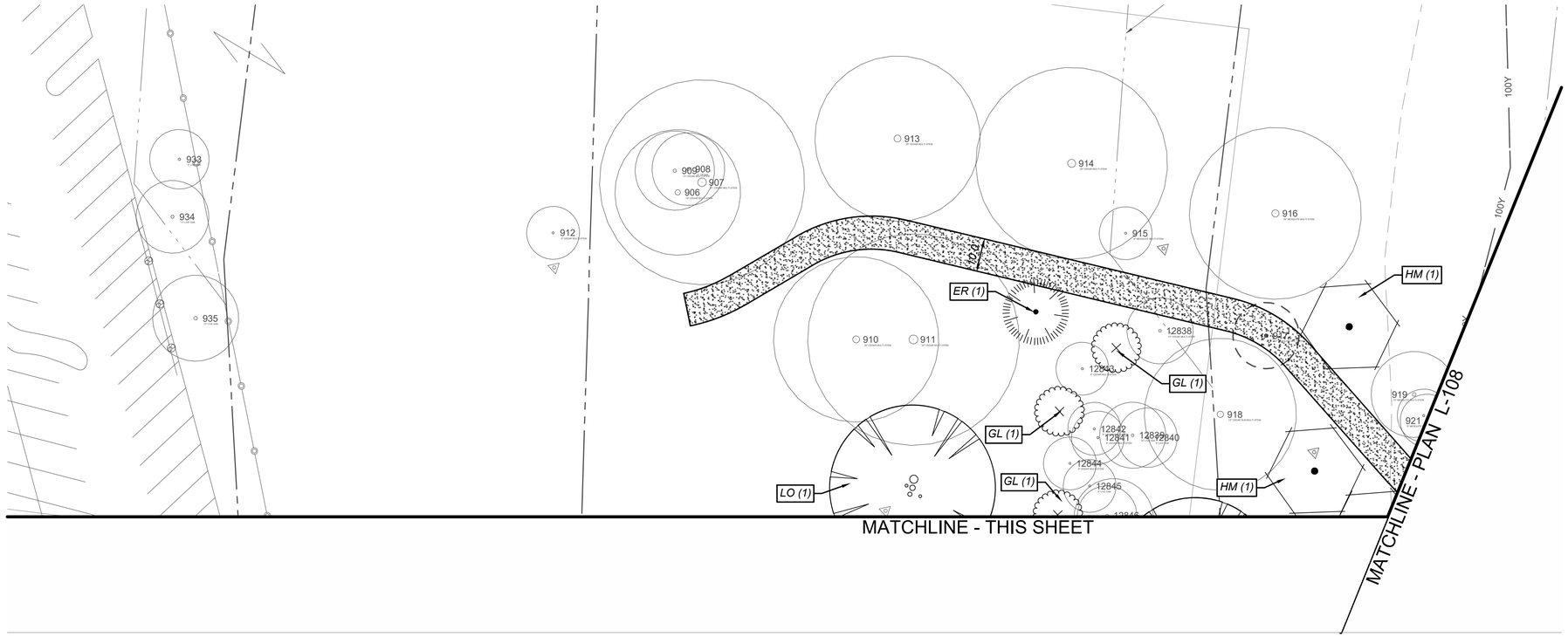

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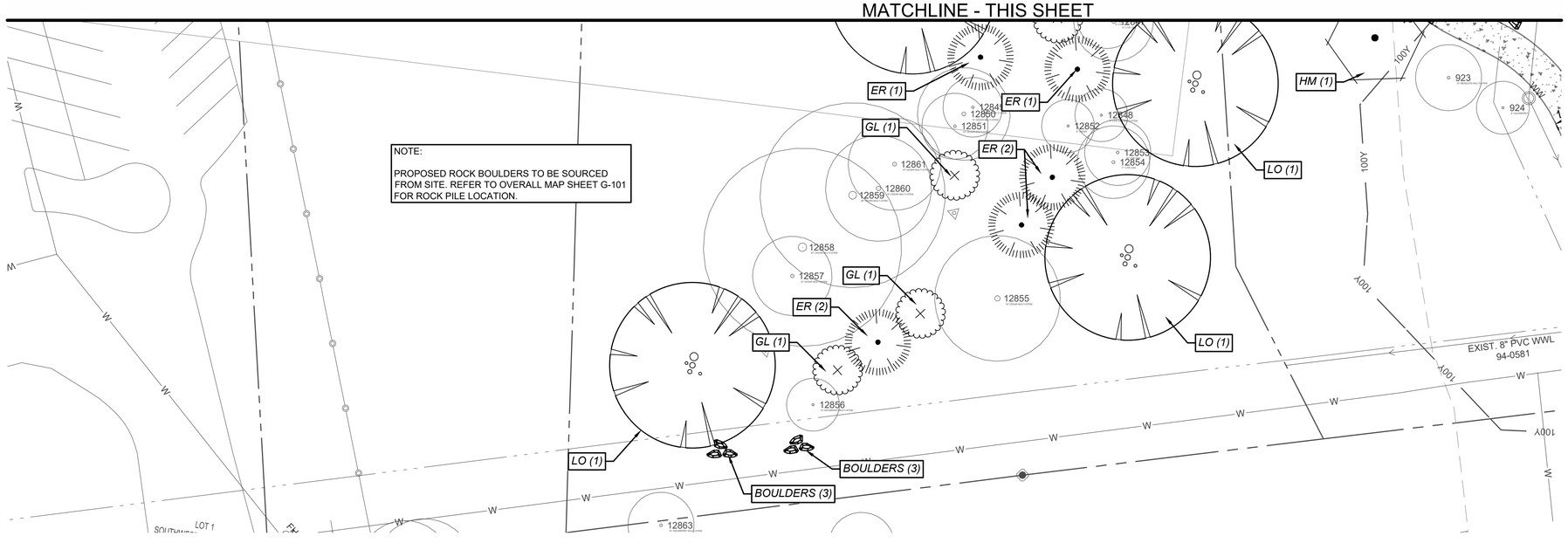

PLANT KEY	
ABBREVIATION	COMMON NAME
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CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
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HM	HONEY MESQUITE
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07.27.2021
RUBEN LOPEZ, JR
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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 7 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 20 40
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-107 | 69 OF 89

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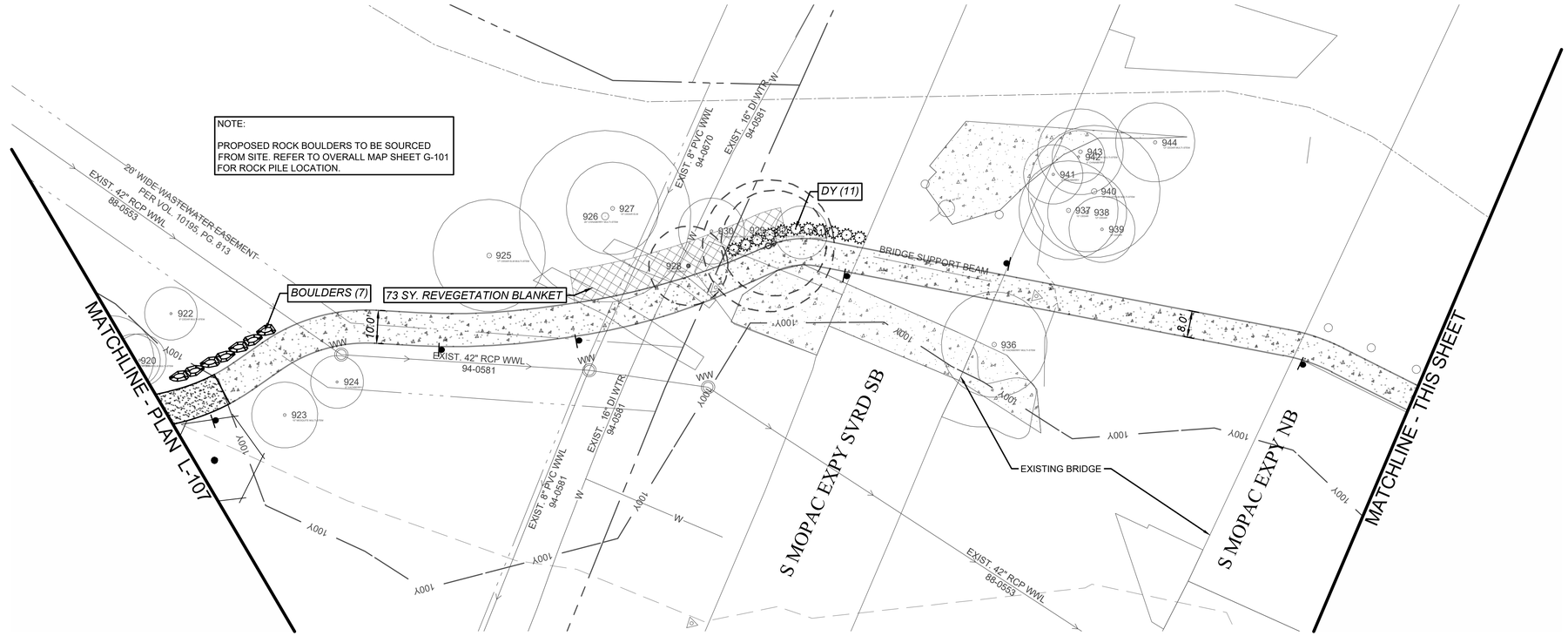
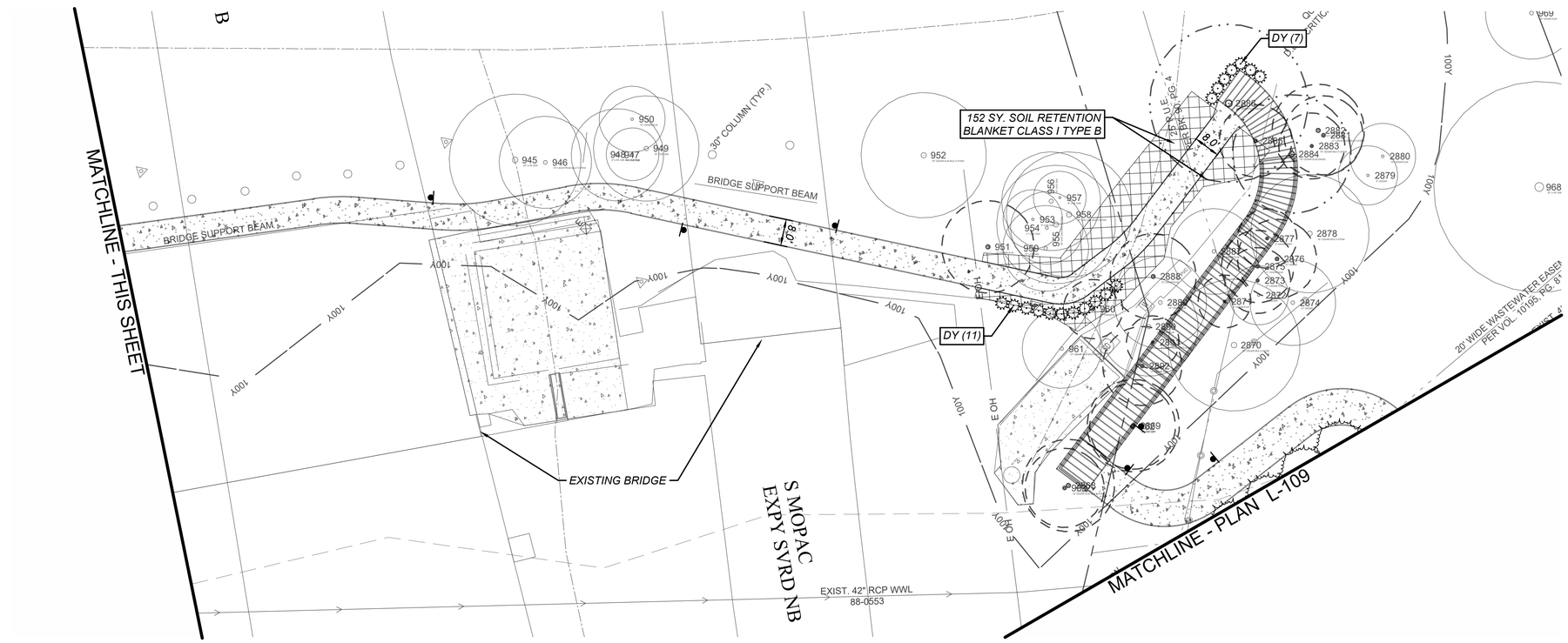


TREE LEGEND

- EX. TREE TO REMAIN
- EX. DEAD TREES
- EX. TREE TO REMOVED

NOTES:

1. REFER TO LANDSCAPE PLANT LIST SHEET L-002.
2. FOR THE TREE LIST SURVEY ON THIS SHEET SEE SHEET CE-601 & CE-602.
3. HARDWOOD MULCH 3" THICK, 5' DIAMETER RINGS TO BE PLACED AROUND ALL NEW TREES
4. HARDWOOD MULCH 3" THICK TO BE PLACED AT THE CITY OF SUNSET VALLEY TRAILHEAD AND ALL CITY OF SUNSET VALLEY PLANTINGS ALONG TRAIL



PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
DC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 8 OF 9

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

L-108 | 70 OF 89

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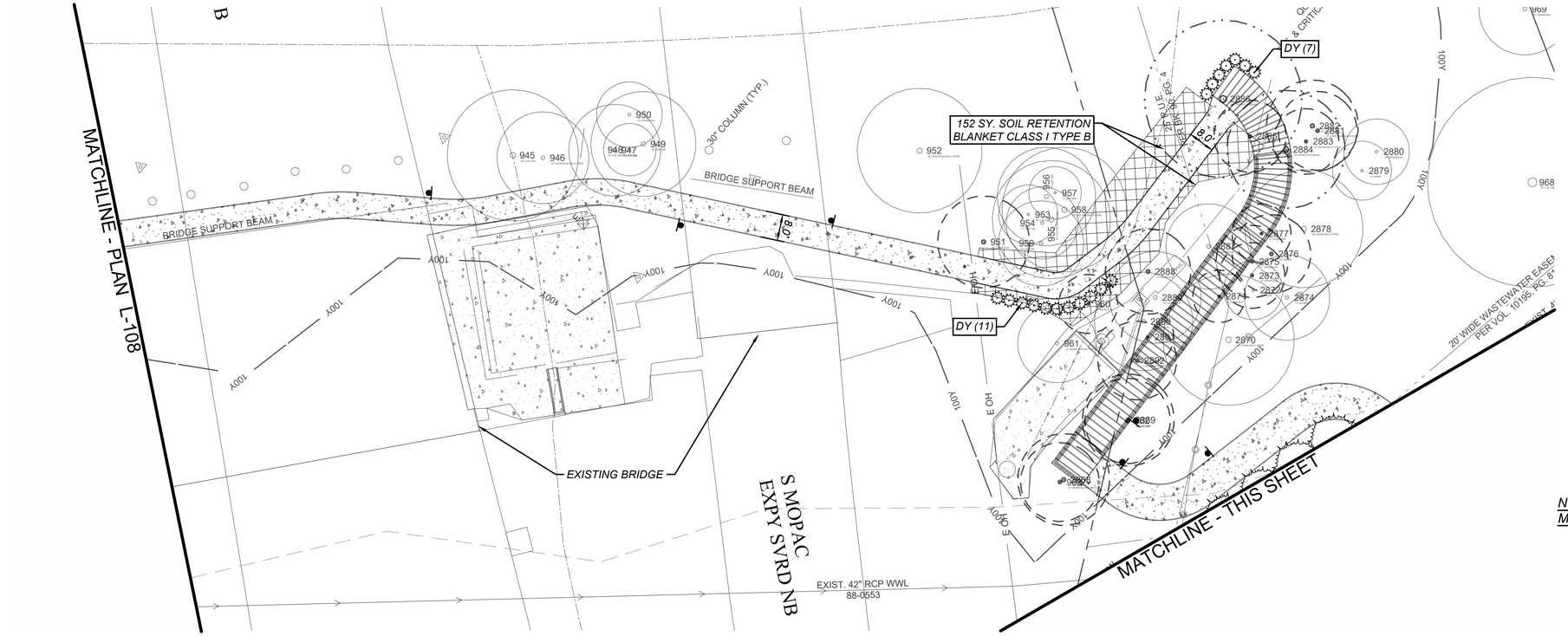


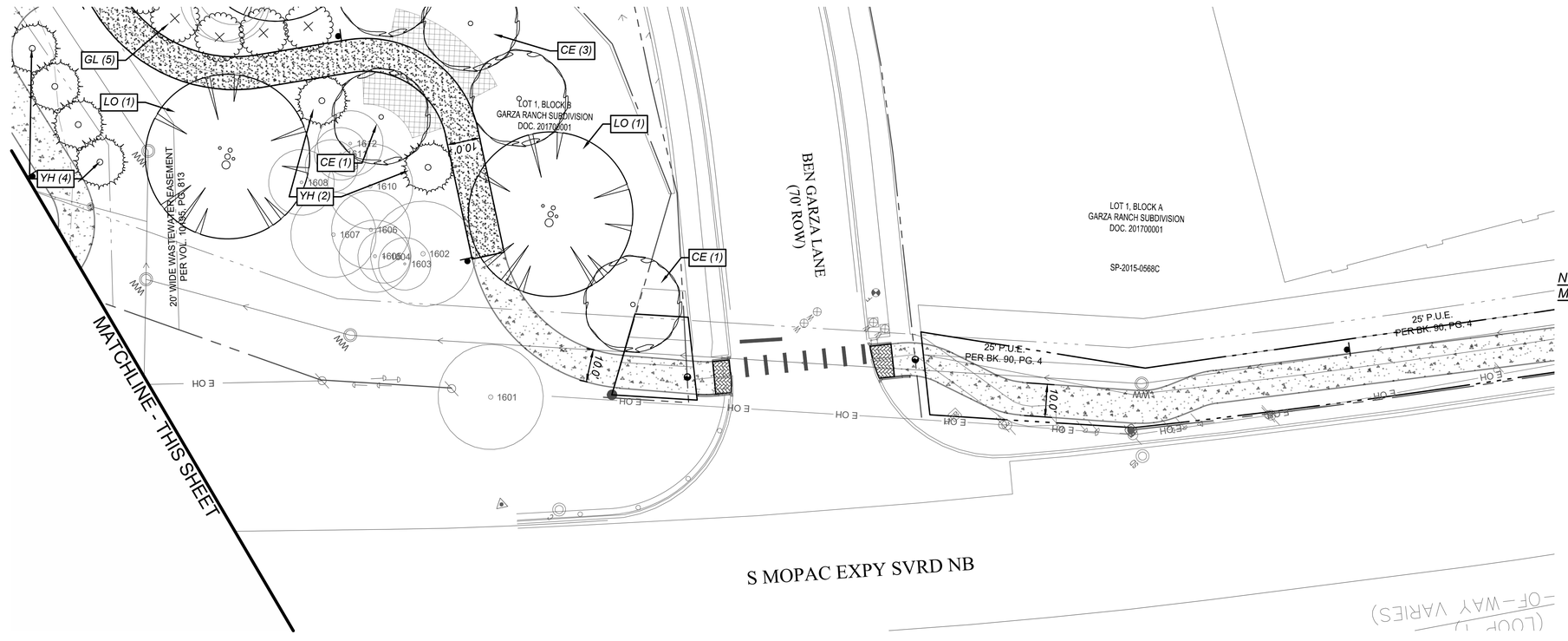
TREE LEGEND

EX. TREE TO REMAIN

EX. DEAD TREES

EX. TREE TO REMOVED

NOTE: DUPLICATE PLANTING. SEE TREE MITIGATION - SHEET L-101 - L-109



NOTE: DUPLICATE PLANTING. SEE TREE MITIGATION - SHEET L-101 - L-109

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DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION - SHEET 9 OF 9

CITY OF AUSTIN
FOUNDED 1839

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L-109 | 71 OF 89

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CITY OF AUSTIN MITIGATION TABLE

MITIGATION REQUIRED

	CATEGORY	ON APPENDIX F 8"-18"	NOT ON APPENDIX F 8"-18"	ON APPENDIX F 19" +	NOT ON APPENDIX F 19" +	HERITAGE
STANDARD MITIGATION FOR ALL TREES	TOTAL INCHES	278	0	53	0	0
	MITIGATION PERCENTAGE	50%	25%	100%	50%	300%
	INCHES TO BE REPLACED	139	0	53	0	0
	TOTAL CALIPER INCHES REMOVED					**331**
	TOTAL CALIPER INCHES REQUIRED TO BE MITIGATED					**192**

MITIGATION PROVIDED

TREE SPECIES				TOTAL # IN DESIGN	TREE SIZE - INCHES	TOTAL INCHES
Live Oak				15	3	45
Chinquapin Oak				7	3	21
Cedar Elm				22	3	66
Monterrey Oak				7	3	21
Goldenball Leadtree				23	2	46
Eastern Red Cedar				18	2	36
Honey Mesquite				3	2	6
Yaupon Holly 'Pride of Houston'				6	2	12
	INCHES PROPOSED FOR MITIGATION PLANTING					**192**
	ADDITIONAL INCHES PROPOSED					**61**
	TOTAL INCHES PROPOSED					**253**

ADDITIONAL TREES TO BE PLANTED

TREE SPECIES				TOTAL # FOR ADDITIONAL	TREE SIZE - INCHES	TOTAL INCHES
Chinquapin Oak				3	3	9
Cedar Elm				7	3	21
Monterrey Oak				3	3	9
Goldenball Leadtree				3	2	6
Eastern Red Cedar				4	2	8
Yaupon Holly 'Pride of Houston'				4	2	8
	ADDITIONAL INCHES PROPOSED					**61**

CITY OF SUNSET VALLEY MITIGATION TABLE

	CATEGORY	TREES LESS THAN 10"	PROTECTED TREES - 10"+	HERITAGE TREES - 24" +	ANCESTRAL TREES - 30" +	TOTALS
STANDARD MITIGATION FOR ALL TREES	TOTAL INCHES	140.5	206	0	0	346.5
	MITIGATION	0	1	2	3	0
	INCHES TO BE REPLACED	0	206	0	0	206
	TOTAL CALIPER INCHES REMOVED					346.5
	TOTAL CALIPER INCHES REQUIRED TO BE MITIGATED					**206**

TREE SPECIES				TOTAL # IN DESIGN	TREE SIZE - INCHES	TOTAL INCHES
Live Oak				8	4	32
Chinquapin Oak				11	4	44
Cedar Elm				11	4	44
Yaupon Holly 'Pride of Houston'				7	2	14
Goldenball Leadtree				11	2	22
INCHES PROPOSED FOR TREE MITIGATION (3/4 OF TOTAL INCHES TO BE MITIGATED*)						**156**
INCHES PROPOSED FOR PLANTING BEDS (1/4 OF TOTAL INCHES TO BE MITIGATED*)						**50**
TOTAL CALIPER INCHES REQUIRED TO BE MITIGATED						**206**

* PER AGREEMENT BETWEEN CITY OF AUSTIN AND CITY OF SUNSET VALLEY, 50" OF PLANTING BEDS TO REPLACE 50" OF TREE CALIPER

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

TREE MITIGATION LIST

CITY OF AUSTIN

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LANDSCAPE PLANTING NOTES

GENERAL

1. INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BEFORE INSTALLATION.
2. INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THOSE SHOWN ON THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO APPROPRIATE PLANT SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE BEFORE INSTALLATION OF THE AREA IN QUESTION IS COMPLETE.
3. SUBSTITUTION OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE.
4. ALL PLANT MATERIAL MUST CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN HORTICULTURE INDUSTRY ASSOCIATION OR EQUIVALENT.
5. ALL PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE PRIOR TO PLANTING.
6. INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
7. EXISTING TREES TO BE SAVED MUST BE PROTECTED BEFORE CONSTRUCTION BEGINS. SEE "TREE PROTECTION AND ENVIRONMENTAL NOTES" SHEET FOR TREE PROTECTION LOCATIONS AND TREE PROTECTION DETAILS. NO EQUIPMENT OR MATERIALS SHALL BE STORED OR OPERATED WITHIN THE FENCED AREAS.
8. THE OWNER WILL CONTINUOUSLY MAINTAIN THE REQUIRED LANDSCAPING IN ACCORDANCE WITH THE LDC 25-2-984.
9. LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE CAN BE CONTACTED AT 512.974.7006.

TREES - SPECIAL CONSTRUCTION TECHNIQUES

10. BEFORE EXCAVATION WITHIN TREE DRIP LINES OR THE REMOVAL OF TREES NEXT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
11. CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY, PLACE GEOTEXTILE FABRIC (PER STANDARD SPEC. 620S) UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONAL MATERIALS SUCH AS PLYWOOD MAY BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETE, SUPPLEMENTAL ROOT-PROTECTION MATERIALS SHOULD BE REMOVED AND MULCH COVER REDUCED FROM 12 TO 3 INCHES DEEP.
12. PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
13. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.

TREES - FERTILIZER

15. HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS OR SOIL INJECTION AT RECOMMENDED RATES ARE TO BE USED WHEN APPROPRIATE. CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIAL AT HALF THE RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST.

TREES - TREE PROTECTION SIGNAGE

16. A LAMINATED SIGN (MIN. SIZE 8.5X11 INCHES) SHALL BE POSTED ON EACH TREE PROTECTIVE DEVICE AND AT LEAST EVERY 100 LINEAR FEET ON PROTECTIVE FENCING, IDENTIFYING THE FOLLOWING: TREE & ROOT PROTECTION ZONE, PER CITY OF AUSTIN CODE (CHAPTER 25-8, SUBCHAPTER B, ARTICLE 1). TREE PROTECTION AND SIGNAGE IS TO REMAIN IN PLACE FOR THE ENTIRETY OF THE CONSTRUCTION. SEE SHEET L-501 FOR DETAIL.

SEQUENCE OF TREE CARE NOTES

1. ANALYSIS (SOIL, FOLIAR, PRUNING, NUTRIENT, ETC.) AND REVIEW OF EACH TREE IMPACTED BY CONSTRUCTION BY CERTIFIED ARBORIST.
2. COORDINATE RECOMMENDATIONS WITH GENERAL PERMIT OFFICE. COORDINATE ALL PRECONSTRUCTION ACTIVITIES (INCLUDING PRUNING) WITH GENERAL PERMIT OFFICE.
3. PRUNE TREES AND APPLY PRECONSTRUCTION NUTRIENTS
4. INSTALL TREE PROTECTION (FENCING, BOARDING, ETC.)
5. MONITOR CONDITION OF TREES DURING CONSTRUCTION. COORDINATE ANY RECOMMENDATIONS AND IMPLEMENTATION FOR TREE CARE WITH GENERAL PERMIT OFFICE DURING CONSTRUCTION PERIOD (E.G. WATER, ADDITIONAL PRUNING, NUTRIENTS, TREE PROTECTION).
6. FOLLOWING CONSTRUCTION, AERATE TREES WITH AIR INJECTION
   - 6.1. SUPERSONIC NOZZLE, 90 PSIG, 150 SCFM, OR APPROVED EQUIVALENT
   - 6.2. AERATE SOIL TO 6 INCH DEPTH OR GREATER AS RECOMMENDED BY CERTIFIED ARBORIST
   - 6.3. REMOVE SOIL AND REPLACE WITH MULCH TO A DEPTH OF 3 INCHES
   - 6.4. PROTECT AERATED SOIL AND MULCH UNTIL FINAL ACCEPTANCE. DO NOT ALLOW COMPACTION OF AERATED AREAS OR MULCH
7. APPLY POSTCONSTRUCTION FERTILIZATION
8. REMOVE TREE PROTECTION
9. FOR ANY QUESTIONS: LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE CAN BE CONTACTED AT 512.974.7006.

NOTE: ALL TREE CARE INCLUDING PRUNING, AERATION, AND FERTILIZATION MUST BE COMPLETED BY A CERTIFIED ARBORIST.

APPENDIX O: LANDSCAPE IRRIGATION NOTES

SITE DEVELOPMENT PERMIT - IRRIGATION NOTES

AUTOMATIC IRRIGATION SYSTEMS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS. THESE REQUIREMENTS SHALL BE NOTED ON THE SITE DEVELOPMENT PERMIT AND SHALL BE IMPLEMENTED AS PART OF THE LANDSCAPE INSPECTION:

1. A NEW COMMERCIAL AND MULTI-FAMILY IRRIGATION SYSTEM MUST BE DESIGNED AND INSTALLED SO THAT:
   - (A) THERE IS NOT DIRECT OVERSPRAY ONTO NON-IRRIGATED AREAS
   - (B) THE SYSTEM DOES NOT INCLUDE SPRAY IRRIGATION ON AREAS LESS THAN SIX (6) FEET WIDE (SUCH AS MEDIANS, BUFFER STRIPS, AND PARKING LOT ISLANDS)
   - (C) ABOVE-GROUND IRRIGATION EMISSION DEVICES ARE SET BACK AT LEAST SIX (6) INCHES FROM IMPERVIOUS SURFACES
   - (D) THE IRRIGATION SYSTEM HAS A MASTER VALVE
   - (E) CIRCUIT REMOTE CONTROL VALVES HAVE ADJUSTABLE FLOW CONTROLS
   - (F) SERVICEABLE IN-HEAD CHECK VALVES ARE ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW HEAD DRAINAGE
   - (G) THE IRRIGATION SYSTEM HAS A CITY-APPROVED WEATHER BASED CONTROLLER
   - (H) AN AUTOMATIC RAIN SHUT-OFF DEVICE SHUTS OFF THE IRRIGATION SYSTEM AUTOMATICALLY AFTER NOT MORE THAN ONE-HALF INCH ($\frac{1}{2}$") RAINFALL
   - (I) ZONE VALVES AND CIRCUITS ARE SEPARATED BASED ON PLANT WATER REQUIREMENTS
   - (J) AN IRRIGATION EMISSION DEVICE (SUCH AS SPRAY, ROTOR, OR DRIP EMITTER) DOES NOT EXCEED THE MANUFACTURER'S RECOMMENDED OPERATING PRESSURE
   - (K) NO COMPONENT OF THE IRRIGATION SYSTEM DEVIATES FROM THE MANUFACTURER'S RECOMMENDED USE OF THE PRODUCT.

2. THE MAXIMUM SPACING BETWEEN SPRAY OR ROTARY SPRINKLER HEADS MUST NOT EXCEED THE RADIUS OF THROW OF THE HEAD UNLESS MANUFACTURER OF THE SPRINKLER HEAD SPECIFICALLY RECOMMENDS A GREATER SPACING. THE RADIUS OF THROW IS DETERMINED BY REFERENCE TO THE MANUFACTURER'S SPECIFICATIONS FOR A SPECIFIC NOZZLE AT A SPECIFIC OPERATING PRESSURE.

3. THE IRRIGATION INSTALLER SHALL DEVELOP AND PROVIDE AN AS-BUILT DESIGN PLAN AND WATER BUDGET TO THE CITY AT THE TIME THE FINAL PLUMBING INSPECTION IS PERFORMED. THE WATER BUDGET SHALL INCLUDE:
   - (A) A CHART CONTAINING ZONE NUMBERS, PRECIPITATION RATE, AND GALLONS PER MINUTE
   - (B) THE LOCATION OF THE EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE. A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR.

4. THE IRRIGATION INSTALLER SHALL PROVIDE A REPORT TO THE CITY ON A FORM PROVIDED BY THE AUSTIN WATER UTILITY DEPARTMENT CERTIFYING COMPLIANCE WITH SUBSECTION 1 WHEN THE FINAL PLUMBING INSPECTION IS PERFORMED BY THE CITY.

IRRIGATION WILL COMPLY WITH CITY CODE CHAPTER 6-4, ARTICLE 2, DIVISION 2 REGARDING THE CITY'S WATER CONSERVATION RESTRICTION.

APPENDIX P-6: REMEDIAL TREE CARE NOTES AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION ZONES

AS A COMPONENT OF AN EFFECTIVE REMEDIAL TREE CARE PROGRAM PER ENVIRONMENTAL CRITERIA MANUAL SECTION 3.5.4, PRESERVED TREES WITHIN THE LIMITS OF CONSTRUCTION MAY REQUIRE SOIL AERATION AND SUPPLEMENTAL NUTRIENTS. SOIL AND/OR FOLIAR ANALYSIS SHOULD BE USED TO DETERMINE THE NEED FOR SUPPLEMENTAL NUTRIENTS. THE CITY ARBORIST MAY REQUIRE THESE ANALYSES AS PART OF A COMPREHENSIVE TREE CARE PLAN. SOIL PH SHALL BE CONSIDERED WHEN DETERMINING THE FERTILIZATION COMPOSITION AS SOIL PH INFLUENCES THE TREE'S ABILITY TO UPTAKE NUTRIENTS FROM THE SOIL. IF ANALYSES INDICATE THE NEED FOR SUPPLEMENTAL NUTRIENTS, THEN HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS ARE HIGHLY RECOMMENDED. IN ADDITION, SOIL ANALYSIS MAY BE NEEDED TO DETERMINE IF ORGANIC MATERIAL OR BENEFICIAL MICROORGANISMS ARE NEEDED TO IMPROVE SOIL HEALTH. MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST (512-974-2755) PRIOR TO APPLICATION. THE OWNER OR GENERAL CONTRACTOR SHALL SELECT A FERTILIZATION CONTRACTOR AND ENSURE COORDINATION WITH THE CITY ARBORIST.

PRE-CONSTRUCTION TREATMENT SHOULD BE APPLIED IN THE APPROPRIATE SEASON, IDEALLY THE SEASON PRECEDING THE PROPOSED CONSTRUCTION. MINIMALLY, AREAS TO BE TREATED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREATMENT SHOULD INCLUDE, BUT NOT BE LIMITED TO, FERTILIZATION, SOIL TREATMENT, MULCHING, AND PROPER PRUNING.

POST-CONSTRUCTION TREATMENT SHOULD OCCUR DURING FINAL REVEGETATION OR AS DETERMINED BY A QUALIFIED ARBORIST AFTER CONSTRUCTION. CONSTRUCTION ACTIVITIES OFTEN RESULT IN A REDUCTION IN SOIL MACRO AND MICRO PORES AND AN INCREASE IN SOIL BULK DENSITY. TO AMELIORATE THE DEGRADED SOIL CONDITIONS, AERATION VIA WATER AND/OR AIR INJECTED INTO THE SOIL IS NEEDED OR BY OTHER METHODS AS APPROVED BY THE CITY ARBORIST. THE PROPOSED NUTRIENT MIX SPECIFICATIONS AND SOIL AND/OR FOLIAR ANALYSIS RESULTS NEED TO BE PROVIDED TO AND APPROVED BY THE CITY ARBORIST PRIOR TO APPLICATION (FAX # 512-974-3010 OR CITYARBORIST@AUSTINTEXAS.GOV). CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIALS AT ½ RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST. WITHIN 7 DAYS AFTER FERTILIZATION IS PERFORMED, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE WORK PERFORMED TO THE CITY ARBORIST, DEVELOPMENT SERVICES DEPARTMENT. P.O. BOX 1088, AUSTIN, TX 78767. THIS NOTE SHOULD BE REFERENCED AS ITEM #1 IN THE SEQUENCE OF CONSTRUCTION.

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YAMAGUCHI, RAY

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

LANDSCAPE AND IRRIGATION NOTES

CITY OF AUSTIN
FOUNDED 1839

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ESD
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SHRUB / PERENNIAL / GRASSES LIST					
PLANT SYMBOL	COMMON NAME	GENUS/SPECIES	COUNT	SIZE	SPACING
	AGARITA	*Mahonia trifoliata*	37	3 GAL	3' O.C.
	BASKET GRASS	*Nolina texana*	43	3 GAL	2' O.C.
	DWARF YAUPON HOLLY	*Ilex vomitoria* 'Nana'	29	3 GAL	4' O.C.
	LANTANA	*Lantana urticoides*	16	1 GAL	3' O.C.
	ROCK ROSE	*Pavonia lasiopetela*	23	1 GAL	1' - 6" O.C.
	SPINELESS PRICKLY PEAR	*Opuntia cacanapa 'Ellisiana'*	26	3 GAL	2' - 6" O.C.
	SIDE OATS GRAMMA	*Bouteloua curtipendula*	48	1 GAL	1' - 6" O.C.
	SWITCH GRASS	*Panicum virgatum*	63	1 GAL	1' - 6" O.C.
	TURK'S CAP	*Malvaviscus drummondii 'Big Momma'*	70	1 GAL	3' O.C.
	TALL GOLDENROD	*Solidago altissima*	27	1 GAL	2' - 6" O.C.

TREE LIST						
PLANT SYMBOL	COMMON NAME	GENUS/SPECIES	COUNT	SIZE	SPACING	COMMENTS
	CEDAR ELM	*Ulmus crassifolia*	33	3" / 4"	MIN 23' O.C.	SINGLE TRUNK
	CHINQUAPIN OAK	*Quercus muhlenbergii*	18	3" / 4"	MIN 30' O.C.	SINGLE TRUNK
	EASTERN RED CEDAR	*Juniperus virginiana*	18	2" OR GAL EQUIVALENT	MIN 20' O.C.	SINGLE TRUNK
	GOLDENBALL LEADTREE	*Leucaena retusa*	34	2" OR GAL EQUIVALENT	MIN 13' O.C.	MULTI TRUNK
	HONEY MESQUITE	*Prosopis chilensis*	3	2" OR GAL EQUIVALENT	MIN 30' O.C.	MULTI TRUNK
	KIDNEYWOOD	*Eysenhardtia texana*	17	10 GAL	MIN 7' O.C.	MULTI TRUNK
	LIVE OAK	*Quercus virginiana*	23	3" / 4"	MIN 38' O.C.	SINGLE TRUNK
	MONTERREY OAK	*Quercus polymorpha*	7	3" / 4"	MIN 36' O.C. OR AS SHOWN	SINGLE TRUNK
	YAUPON HOLLY	*Ilex vomitoria 'Pride of Houston'*	13	2" OR GAL EQUIVALENT	MIN 14' O.C. OR AS SHOWN	MULTI TRUNK
	LIMESTONE BOULDERS		48	MISCELLANEOUS	SEE NOTE BELOW	SEE NOTE BELOW

NOTE: BOULDERS TO BE SOURCED ON SITE. ACQUISITION AND PLACEMENT TO BE COORDINATED WITH CITY OF SUNSET VALLEY ENVIRONMENTAL SERVICES MANAGER CAROLYN MEREDITH AT 512-891-9103 AND CITY OF AUSTIN LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE AT 512-974-7006.

PLANT KEY	
ABBREVIATION	COMMON NAME
AG	AGARITA
BG	BASKET GRASS
LA	LANTANA
RR	ROCK ROSE
PP	SPINELESS PRICKLY PEAR
SO	SIDE OATS GRAMMA
SG	SWITCH GRASS
TC	TURK'S CAP
GR	TALL GOLDENROD

PLANT KEY	
ABBREVIATION	COMMON NAME
CE	CEDAR ELM
CO	CHINQUAPIN OAK
DY	DWARF YAUPON HOLLY
ER	EASTERN RED CEDAR
GL	GOLDBALL LEADTREE
HM	HONEY MESQUITE
KW	KIDNEYWOOD
LO	LIVE OAK
MO	MONTERREY OAK
YH	YAUPON HOLLY

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
DC # 93745

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE, AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

YAMAGUCHI, RM

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

LANDSCAPE PLANT LIST

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
D I V I S I O N

GP-2020-0085.PW

L-002 | 74 OF 89

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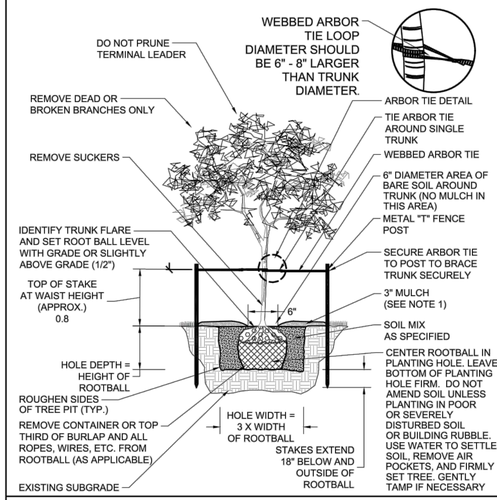
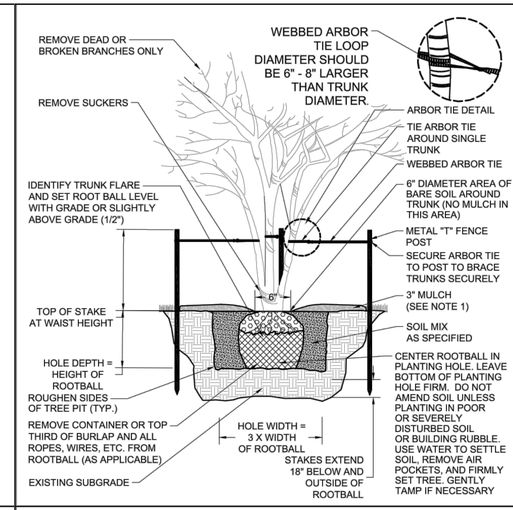
7/27/2021 10:49 AM



NOTES:
1. DO NOT PLACE MULCH IN CONTACT WITH PLANT TRUNK.
2. REMOVE NURSERY-APPLIED TREE WRAP, TAPE, OR STRING FROM TREE TRUNK AND CROWN. REMOVE ANY TAGS OR LABELS.
3. STAKING OF TREES SHALL ONLY BE PERMITTED WHERE SITE OR TREE CONDITIONS ARE SUCH THAT THE TREES ARE ANTICIPATED TO BE UNSTABLE.
4. POST AND TIES TO BE INSTALLED WITHOUT HARMING THE TREE (E.G. NON-BINDING STRAPS, POSTS SET OUTSIDE THE ROOTBALL) AND MUST BE REMOVED AFTER ONE YEAR.
5. SEE ANSI A300 (PART 1) FOR INFORMATION REGARDING PRUNING.
6. SEE ANSI Z60.1 FOR NURSERY STOCK STANDARDS.

TREE PLANTING - SINGLE TRUNK — 1 OF 1



NOTES:
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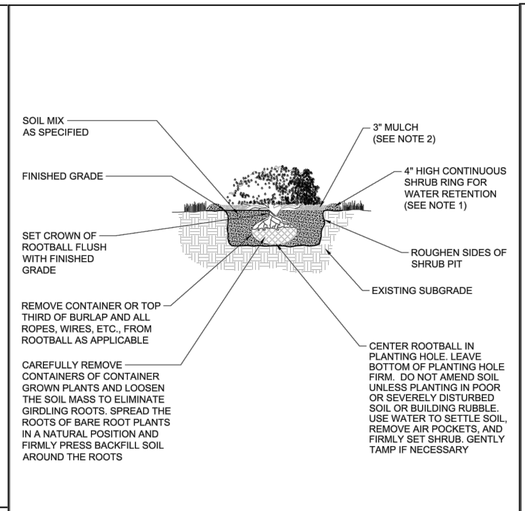
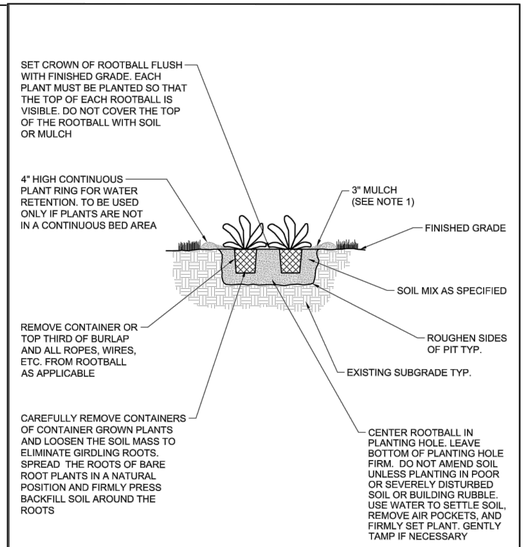
5. SEE ANSI A300 (PART 1) FOR INFORMATION REGARDING PRUNING.
6. SEE ANSI Z60.1 FOR NURSERY STOCK STANDARDS.

TREE PLANTING - MULTI TRUNK — 1 OF 1



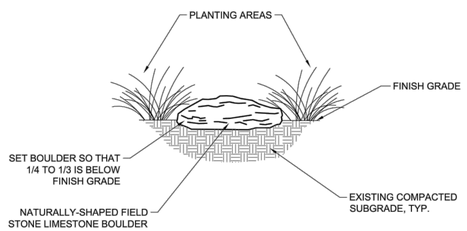
NOTES:
1. SHRUB RING FOR WATER RETENTION TO BE USED ONLY IF SHRUB IS NOT IN A CONTINUOUS BED AREA.
2. DO NOT PLACE MULCH IN CONTACT WITH PLANT TRUNK.
3. SEE ANSI Z60.1 FOR NURSERY STOCK STANDARDS.

SHRUB PLANTING — 1 OF 1



NOTES:
1. DO NOT PLACE MULCH IN CONTACT WITH PLANT TRUNK.
2. SEE ANSI Z60.1 FOR NURSERY STOCK STANDARDS.

PERENNIAL / GROUND COVER PLANTING — 1 OF 1



NOTES:
1. SEE SPECIFICATION FOR BOULDER TYPE.
2. SET BOULDER 1/4 TO 1/3 BELOW FINISHED GRADE.

BOULDER IN GROUND — 1 OF 1

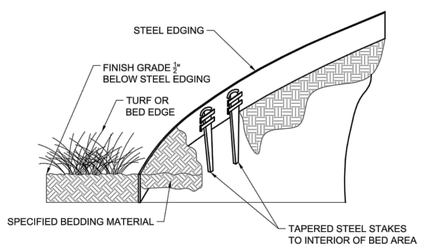
TREE & ROOT PROTECTION ZONE

Per City of Austin code (Chapter 25-8, Subchapter B, Article 1) this protective device is to remain in place for the entirety of the development project and illegal removal is subject to fines and work suspensions. Additional information can be obtained at the: City Arborist (512-974-1876) web site (http://www.ci.austin.tx.us/trees).

Zona de Protección del Árbol y las Raícesel dispositivo protector debe quedarse en el lugar para la totalidad del proyecto de la construcción. Para información adicional, contacta la Arborista Municipal (512) 974-1876 o http://www.ci.austin.tx.us/trees/trees_spanish.htm.

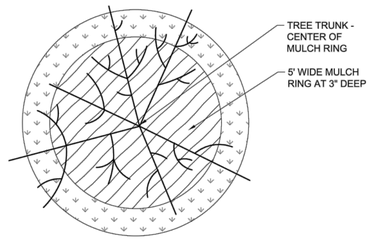
NOTES:
1. A LAMINATED SIGN (MIN. SIZE 8.5"X11") SHALL BE POSTED ON EACH TREE PROTECTIVE DEVICE AND AT LEAST EVERY 100 LINEAR FEET ON PROTECTIVE FENCING.
2. SIGN MUST IDENTIFY THE FOLLOWING:
   2.1. TREE & ROOT PROTECTION ZONE
   2.2. PER CITY OF AUSTIN CODE (CHAPTER 25-8, SUBCHAPTER B, ARTICLE 1)
3. TREE PROTECTION AND SIGNAGE IS TO REMAIN IN PLACE FOR THE ENTIRETY OF THE PROJECT.
4. SEE SIGN EXAMPLE ABOVE.

TREE PROTECTION SIGNAGE — 1 OF 1



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

STEEL LANDSCAPE EDGING — 1 OF 1



NOTES:
1. USE MULCH AS SPECIFIED.
2. 5' WIDE MULCH RING FOR ALL NEW TREES.
3. MULCH MUST BE 3" DEEP.
4. MULCH TO BE EQUALLY DISTRIBUTED AROUND THE TREE WITH NO AREA LEFT EXPOSED OR THINNER THAN 3" DEEP.
5. DO NOT ALLOW MULCH TO PILE UP AGAINST TREE TRUNK.

TREE MULCH DETAIL — 1 OF 1

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07.27.2021
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93745
LICENSED PROFESSIONAL ENGINEER

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LIC # 93745

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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

LANDCAPE DETAILS

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES DIVISION

GP-2020-0085.PW

L-501 | 75 OF 89

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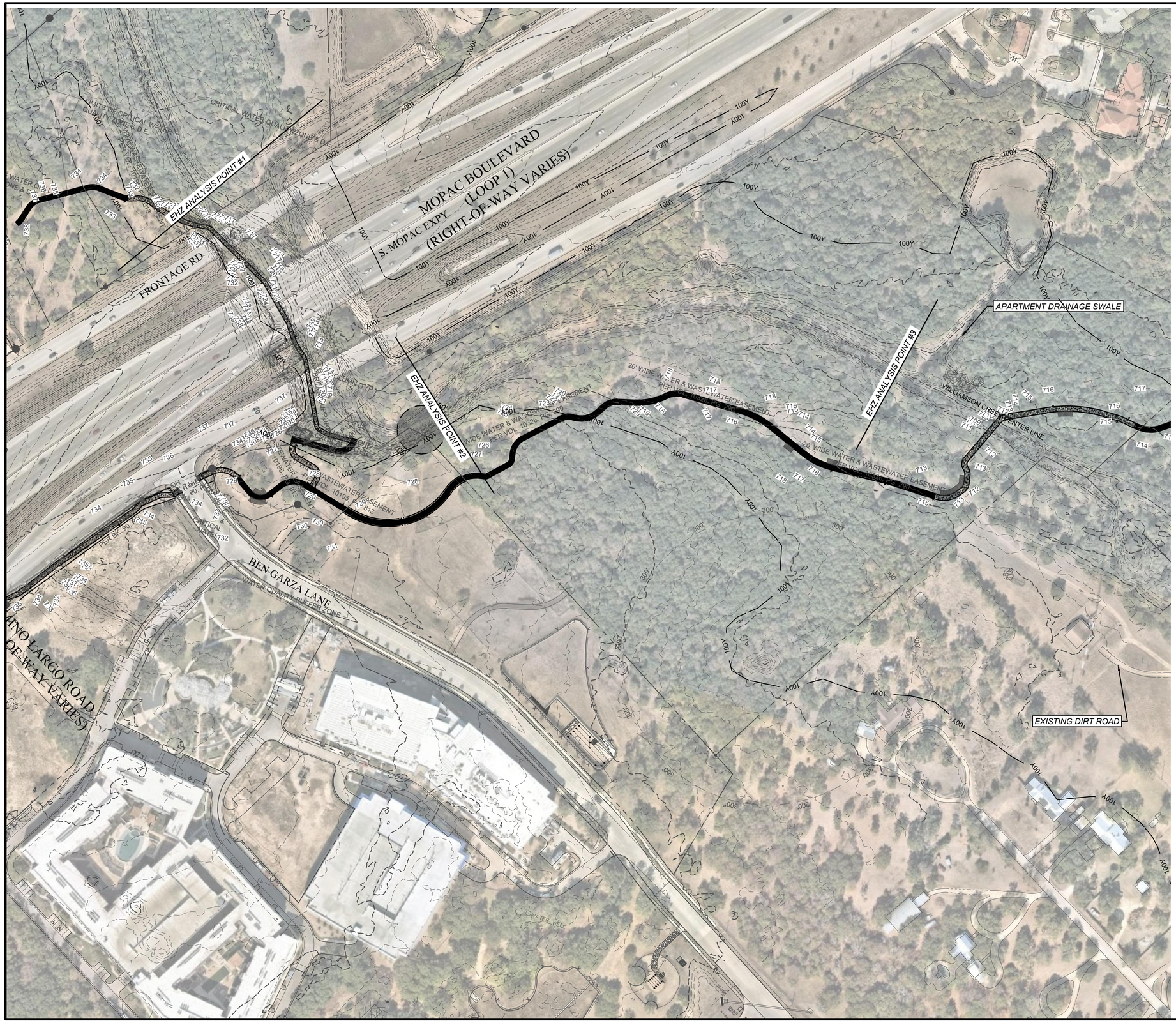

NOTE:
PER WILLIAMSON CREEK WATERSHED EROSION ASSESSMENT, DATED MAY, 1997 - C.I.P. 485-617-2000, THIS PROJECT IS LOCATED WITHIN THE WILLIAMSON CREEK SEGMENT 11. SEGMENT 11 IS DESCRIBED AS A ROCKBED WITH AGGRADATION. PER COORDINATION WITH THE CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT, THE FUTURE INCISION DEPTH (Di) IS EQUAL TO ONE (1) TIME THE EXISTING DEPTH (Dex).

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EROSION HAZARD ZONE
WORK MAP (OVERALL)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 100 200
HORIZONTAL SCALE IN FEET

GP-2020-0085.PW

S-101 | 76 OF 89

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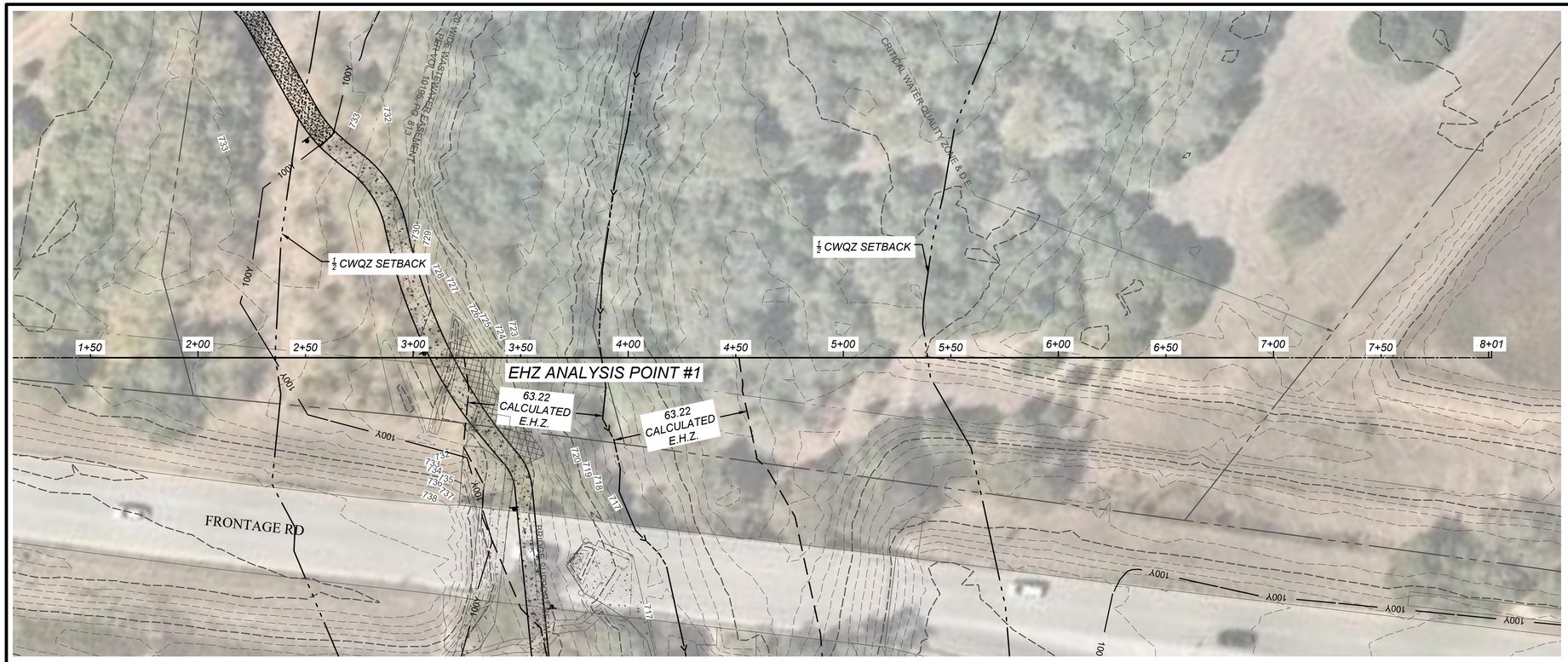

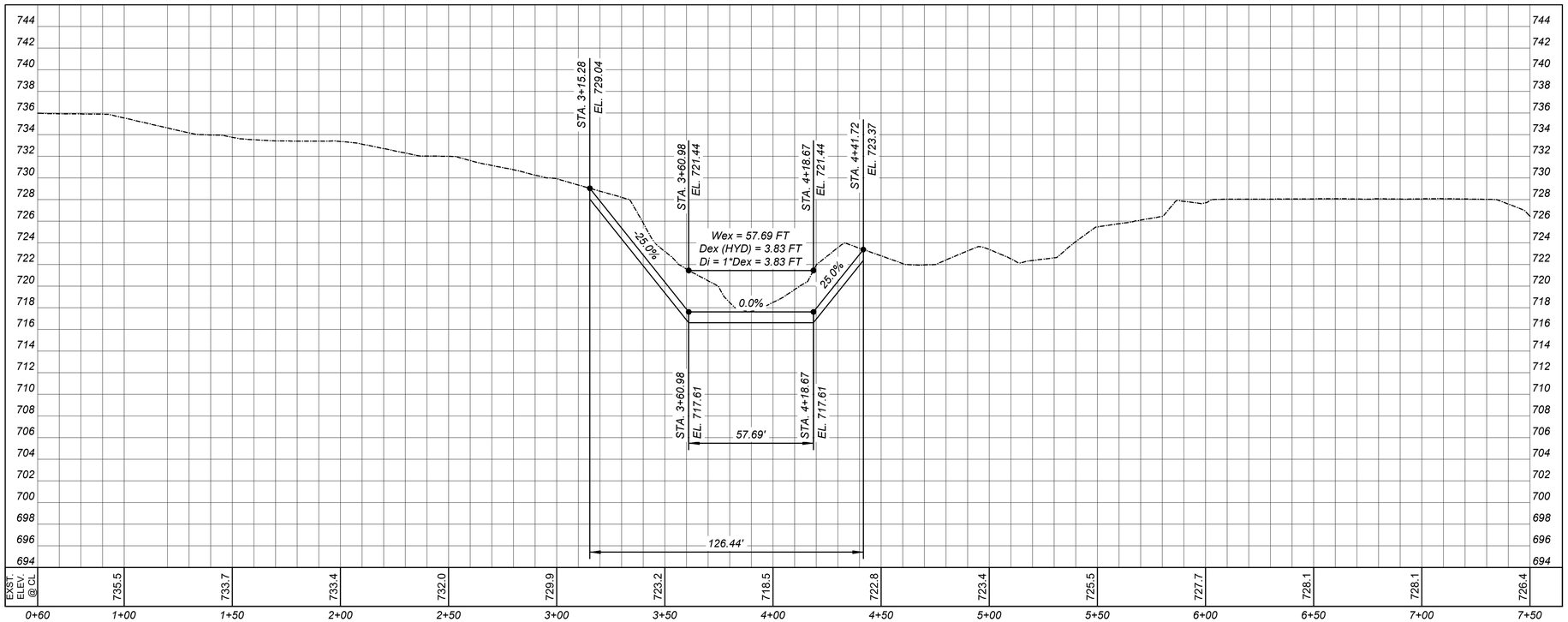

WILLIAMSON CREEK EHZ POINT #1

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2. ONE (1) FOOT CONTOUR TOPOGRAPHY IS BASED ON CITY OF AUSTIN G.I.S. 2012 AERIAL INFORMATION.

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STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

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LIC # 93745 ON 07.27.2021

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YAMAGUCHI, RAA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EHZ ANALYSIS POINT 1

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET
0 6 12
VERTICAL SCALE IN FEET

GP-2020-0085.PW

S-102 | 77 OF 89

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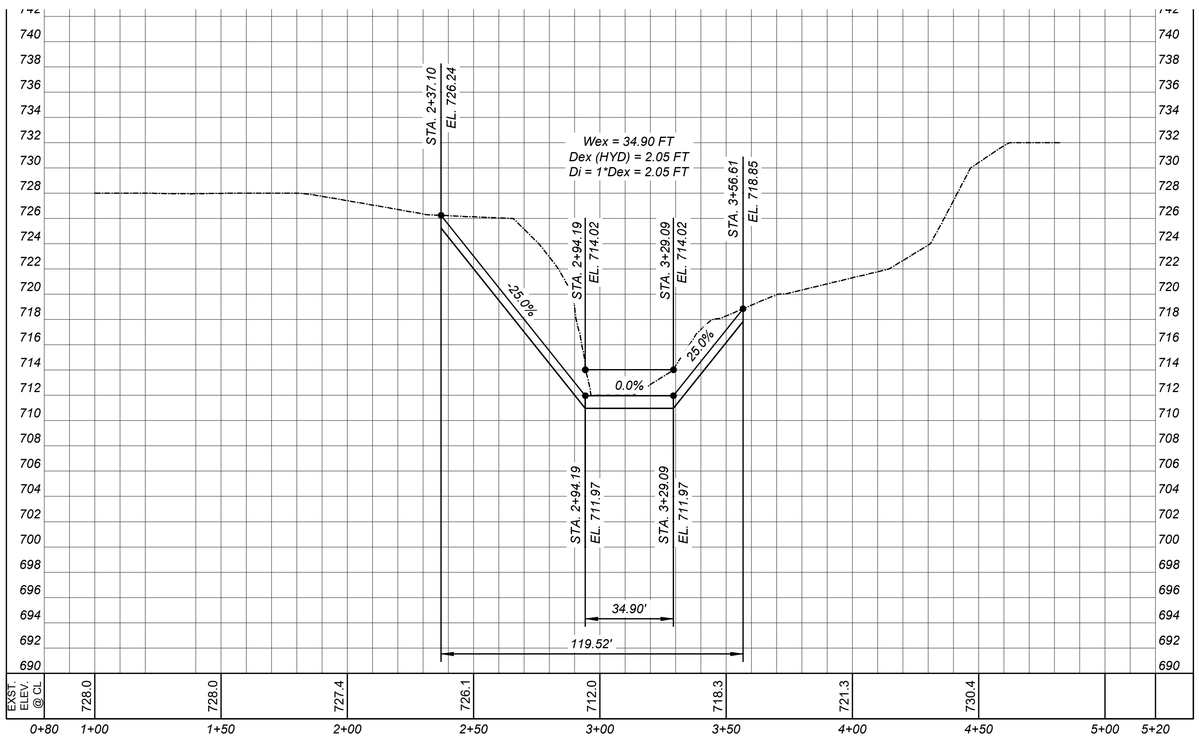

WILLIAMSON CREEK EHZ POINT #2

NOTE:
1. PER WILLIAMSON CREEK WATERSHED EROSION ASSESSMENT, DATED MAY, 1997 - C.I.P. 485-617-2000, THIS PROJECT IS LOCATED WITHIN THE WILLIAMSON CREEK SEGMENT 11. SEGMENT 11 IS DESCRIBED AS A ROCKBED WITH AGGRADATION. PER COORDINATION WITH THE CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT, THE FUTURE INCISION DEPTH (Di) IS EQUAL TO ONE (1) TIME THE EXISTING DEPTH (Dex).
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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EHZ ANALYSIS POINT 2

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET
0 6 12
VERTICAL SCALE IN FEET

GP-2020-0085.PW

S-103 | 78 OF 89

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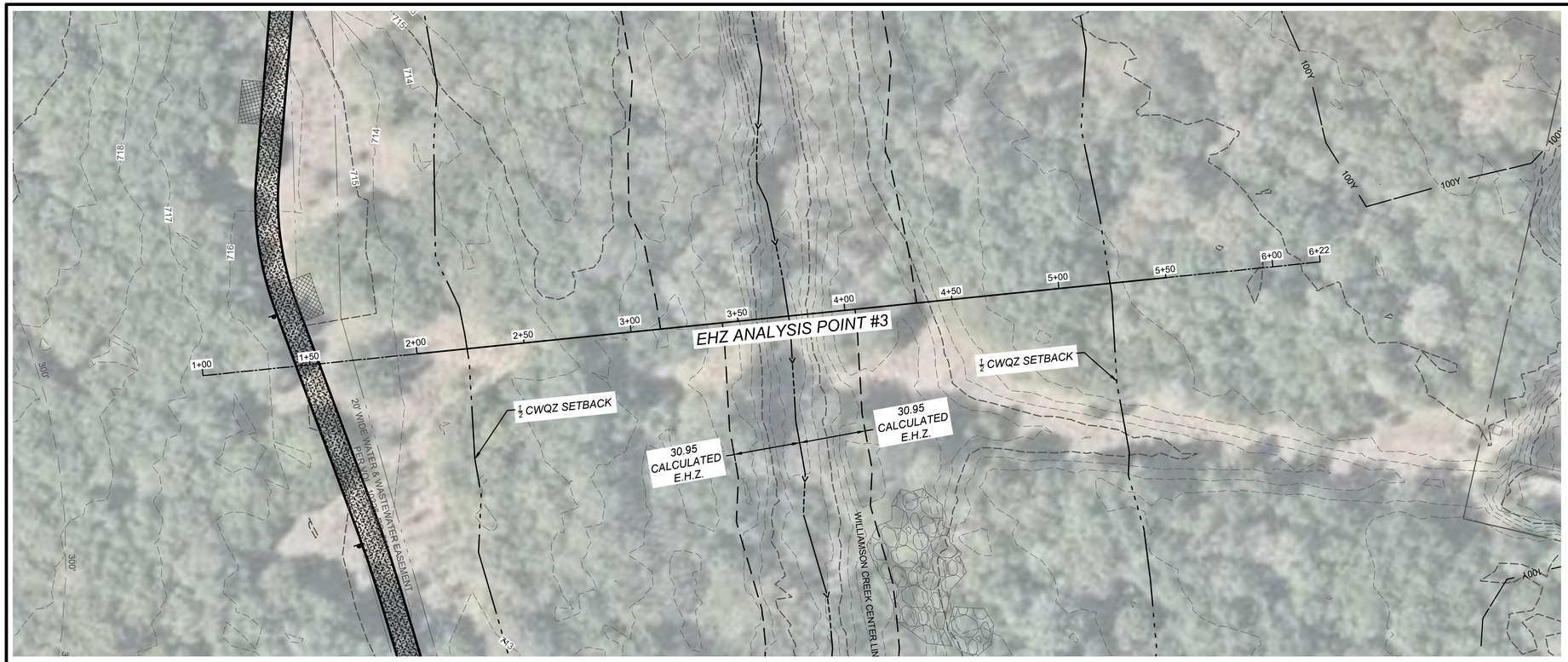
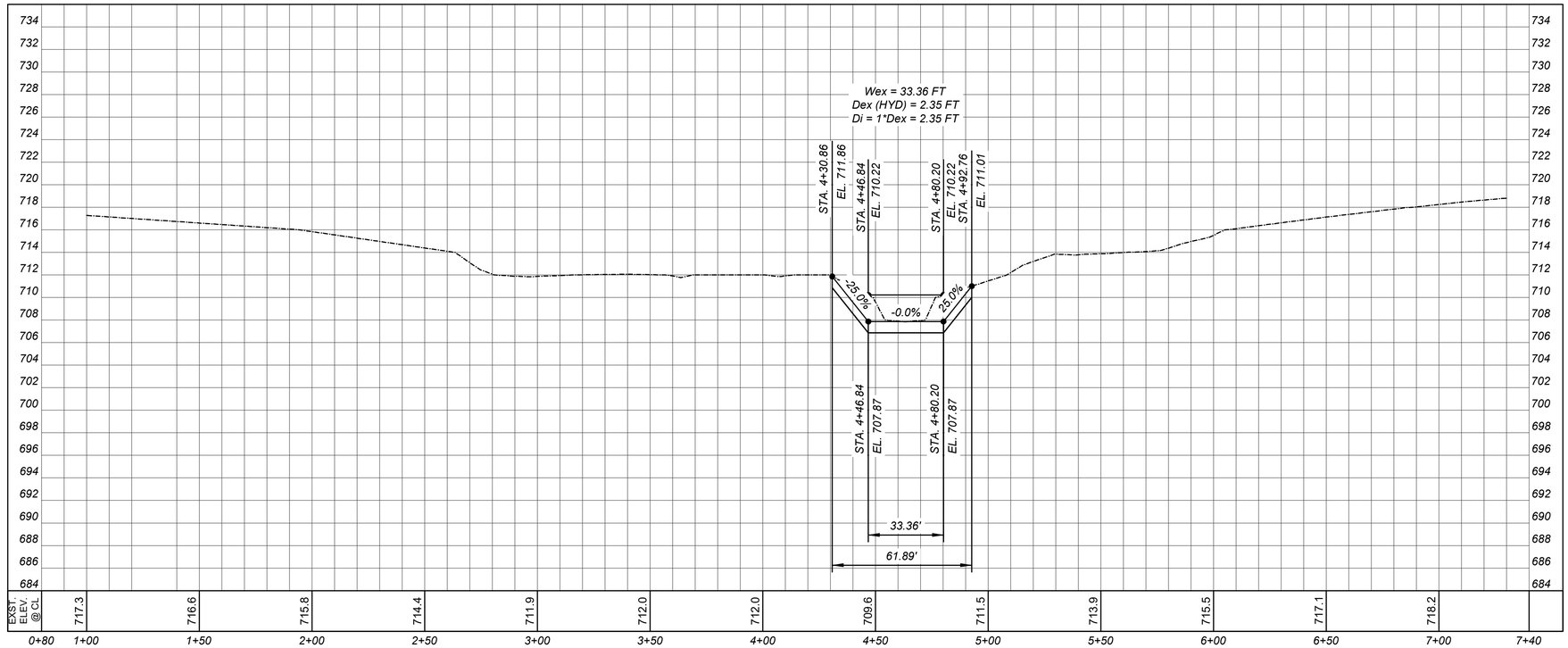
7/27/2021 10:50 AM YAMAGUCHI, RIA





WILLIAMSON CREEK EHZ POINT #3

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

EHZ ANALYSIS POINT 3

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
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CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

0 30 60
HORIZONTAL SCALE IN FEET
0 6 12
VERTICAL SCALE IN FEET

GP-2020-0085.PW

S-104 | 79 OF 89

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7/27/2021 10:50 AM
YAMAGUCHI, RIA

VIOLET CROWN TRAIL
NORTH PHASE 2A

GENERAL NOTES

1. *Reserved.*

2. Vehicular access larger than the design live load shall be limited by permanent physical means.

3. Prior to construction the contractor shall verify all elevations through the project engineer.

4. *Reserved.*

5. All Materials Shall Be Installed By Contractor.

DESIGN DATA

1. Boardwalk shall be designed in accordance with the AASHTO LRFD bridge design specifications and the LRFD guide specification for the design of pedestrian bridges.

   Design Live Load: Pedestrian Loading - 90 psf Uniform
   Vehicular Loading - H5 Design Truck (10,000 Lb. Vehicle)

2. Piers shall be designed for lateral earth pressure, live load surcharge and structure loads.
   Allowable bearing pressure for piers penetrating a minimum of 12 inches below limestone surface: 10,000 psf. (Contractor To Verify)

3. All geotechnical recommendations contained in the report of subsurface investigation shall be followed. Report "Geotechnical Engineering Study For Violet Crown Trail" was dated January 10, 2020 and produced by Raba Kistner.

4 *Reserved.*

5. Concrete Design In Accordance With ACI 318-19 Specifications.

MATERIALS

1. All bolts, nuts, washers, and hardware shall be hot dipped galvanized after fabrication in accordance with ASTM A153.

2. Cast-in-place concrete shall have a 28-day concrete compressive strength of 4000 psi.

3. Cast-in-place concrete shall meet Class S concrete mix design specifications and material requirements of the city of Austin, TX per Item No. 403S in the City of Austin Standard Specifications Manual.

4. All reinforcing shall be Grade 60 conforming to ASTM A615.

ANTICIPATED MATERIALS TESTING AND INSPECTION FOR PREFABRICATED BRIDGE CONSTRUCTION

SYSTEM OR MATERIAL	INSPECTION			
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY	
			CONTINUOUS	PERIODIC
SOILS				
VERIFY MATERIAL BELOW FOUNDATION IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY, FREE OF LOOSE, DELETERIOUS OR FOREIGN MATERIAL	1705.6 & 3304 & APPENDIX J	GEOTECHNICAL REPORT		X (FOUNDATION EXCAVATION COMPLETE)
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH, PROPER SIZE AND MATERIAL				X (FOUNDATION EXCAVATION COMPLETE)
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY SITE IS PROPERLY PREPARED				X (PRIOR TO PLACEMENT OF FILL)
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL				X (DURING TO PLACEMENT OF FILL)
STEEL				
STEEL PICKET RAILING, ON-SITE WELDING OF MEMBERS	1705.2.1			X (AFTER INSTALLATION)
CONCRETE				
CLIP ANGLE ANCHORAGE		ACI 318: 17.8.2		X (BEFORE INSTALLATION)
VERIFY USE OF REQUIRED DESIGN MIX	1904.1, 1904.2 1908.2, 1908.3	ACI 318: Ch 19, 26.4.3, 26.4.4		X (PRIOR TO CONCRETE PLACEMENT)
FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPRATURE OF THE CONCRETE	1908.10	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12		X (PRIOR TO CONCRETE PLACEMENT)
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		ACI 318: CH26.8		X (DURING AND UPON COMPLETION)

PRECAST CONCRETE BOARDWALK
SHEET 1 OF 6

NO.	DATE	DESCRIPTION	BY:
6			
5			
4			
3			
2			
1			

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
7/26/2021

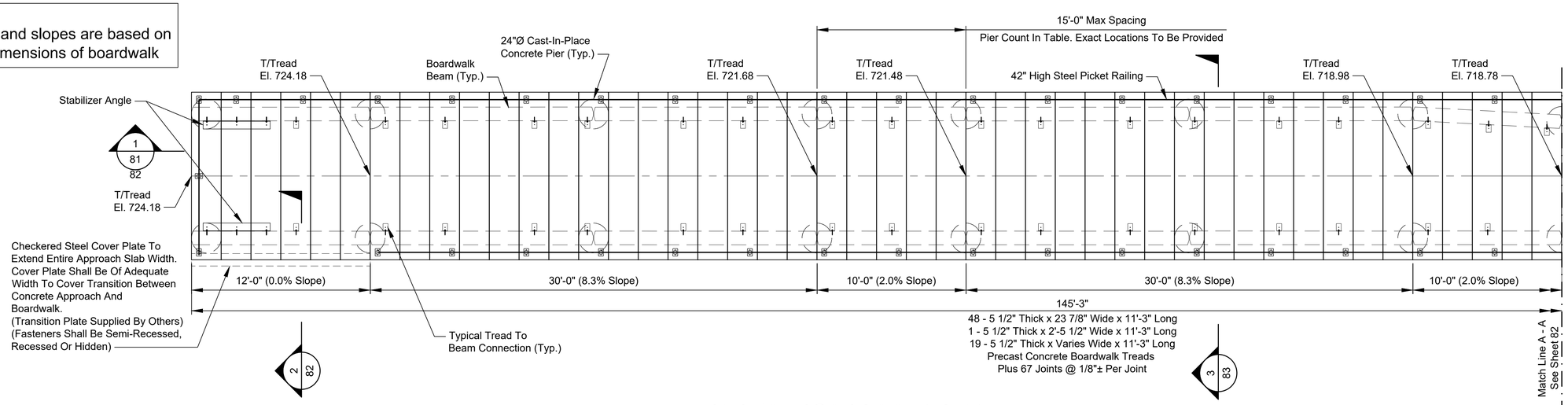
These drawings are included for reference purposes and were provided by PermaTrak North America. Final engineered drawings will be submitted by Prefab Bridge Manufacturer per SS1400-PCBW. Please reference SS1400-PCBW for submittal requirements.

PROJECT TITLE:

VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

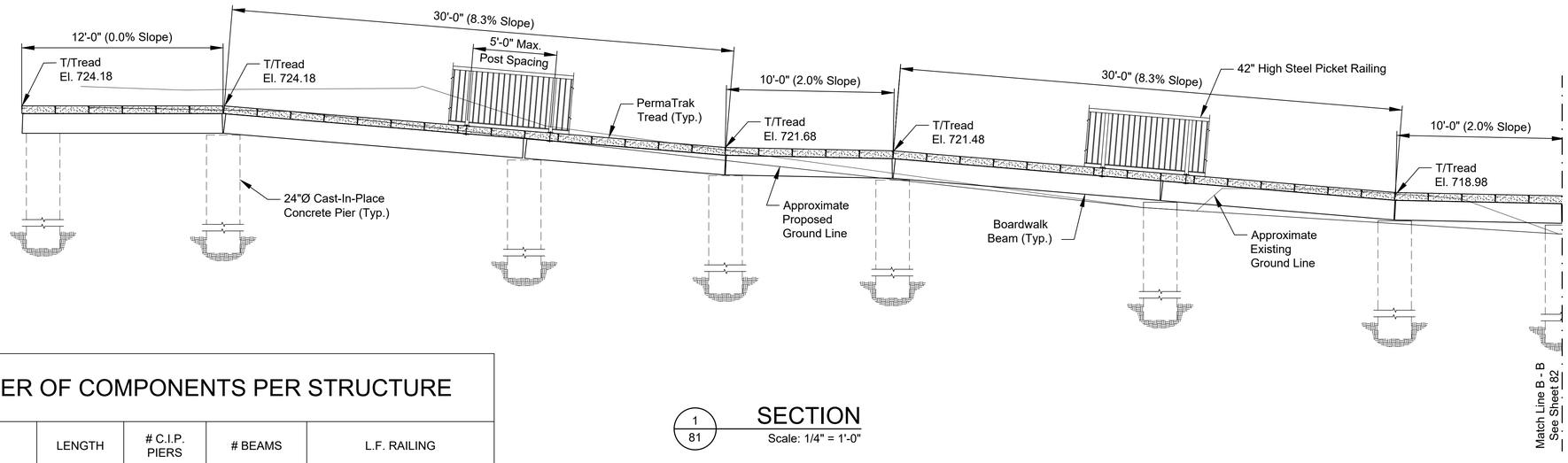
SHEET NO.
80

Note:
Dimensions and slopes are based on centerline dimensions of boardwalk



PARTIAL BOARDWALK PLAN

Scale: 1/4" = 1'-0"



1
81
SECTION
Scale: 1/4" = 1'-0"

NUMBER OF COMPONENTS PER STRUCTURE

STRUCTURE	LENGTH	# C.I.P. PIERS	# BEAMS	L.F. RAILING
BOARDWALK #1	145'-3"	24	22	234'-6"

PRECAST CONCRETE BOARDWALK SHEET 2 OF 6

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

NO.	DATE	DESCRIPTION	BY:
6			
5			
4			
3			
2			
1			

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
7/26/2021

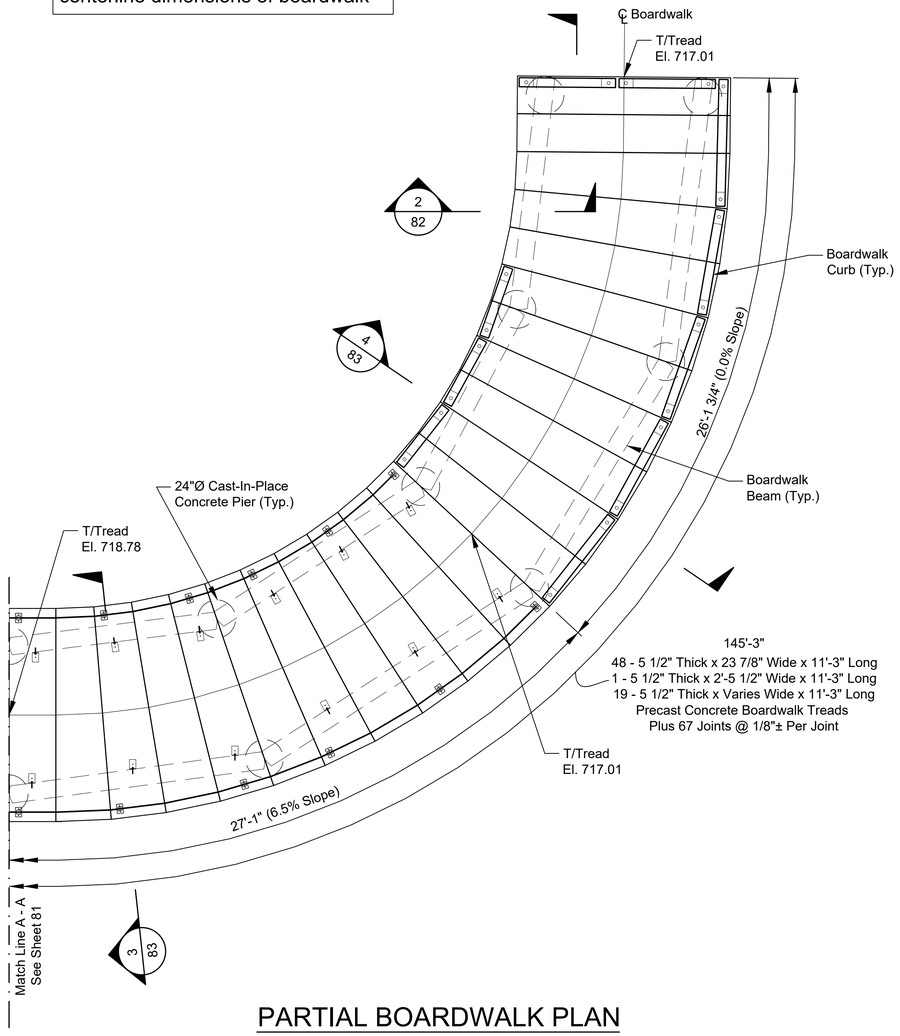
These drawings are included for reference purposes and were provided by PermaTrak North America. Final engineered drawings will be submitted by Prefab Bridge Manufacturer per SS1400-PCBW. Please reference SS1400-PCBW for submittal requirements.

PROJECT TITLE:

VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

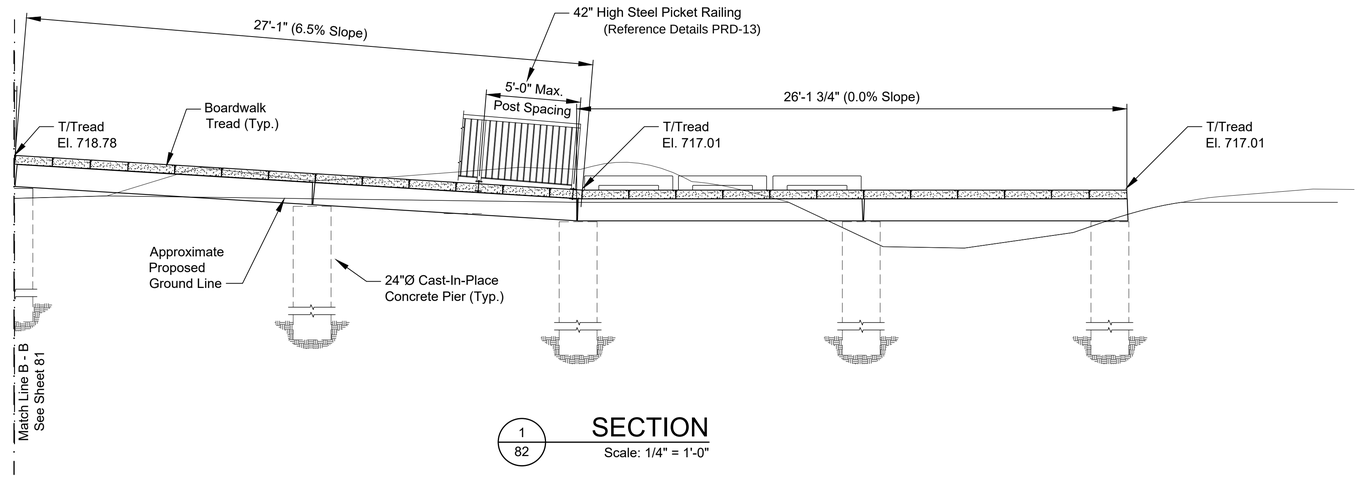
SHEET NO.
81

Note:
Dimensions and slopes are based on centerline dimensions of boardwalk



PARTIAL BOARDWALK PLAN

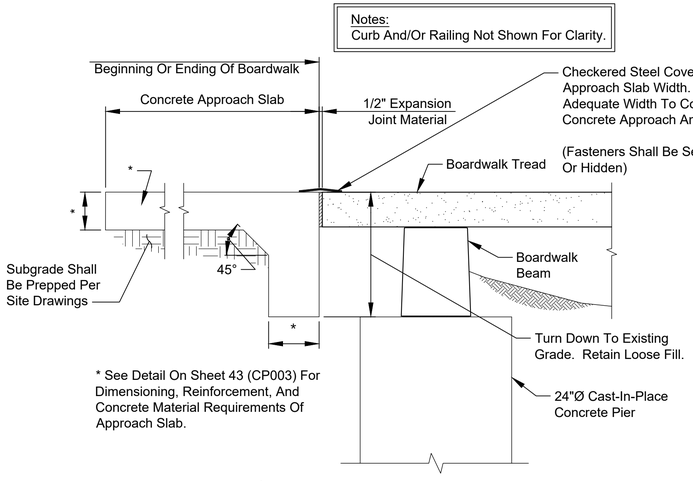
Scale: 1/4" = 1'-0"



1/82 SECTION

Scale: 1/4" = 1'-0"

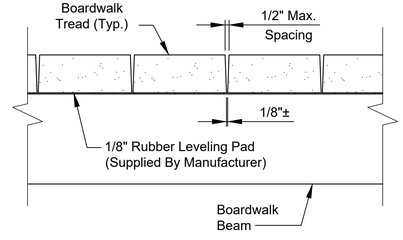
Notes:
Curb And/Or Railing Not Shown For Clarity.



* See Detail On Sheet 43 (CP003) For Dimensioning, Reinforcement, And Concrete Material Requirements Of Approach Slab.

2/82 SECTION

Scale: 1" = 1'-0"



TYPICAL TREAD SPACING DETAIL

Scale: Not To Scale

PRECAST CONCRETE BOARDWALK
SHEET 3 OF 6

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

NO.	DATE	DESCRIPTION	BY:
6			
5			
4			
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1			

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
7/26/2021

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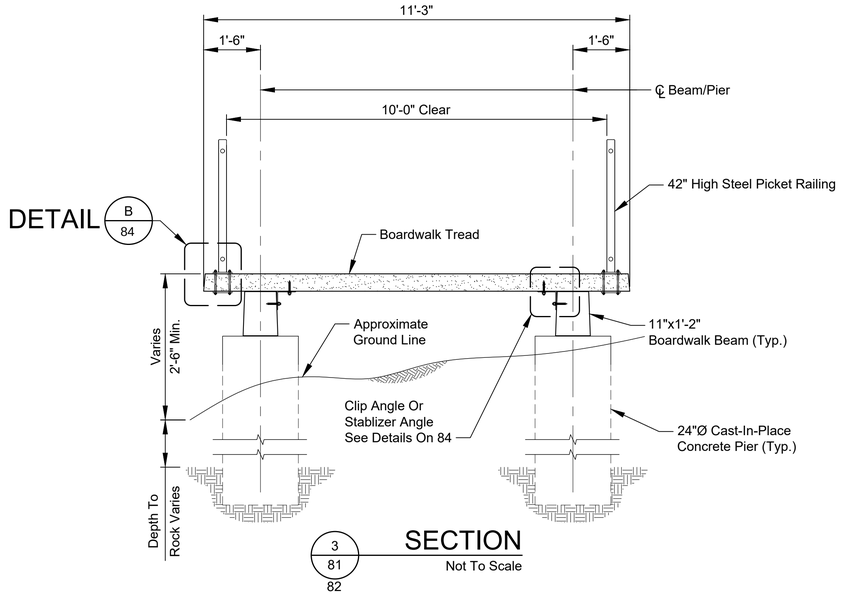
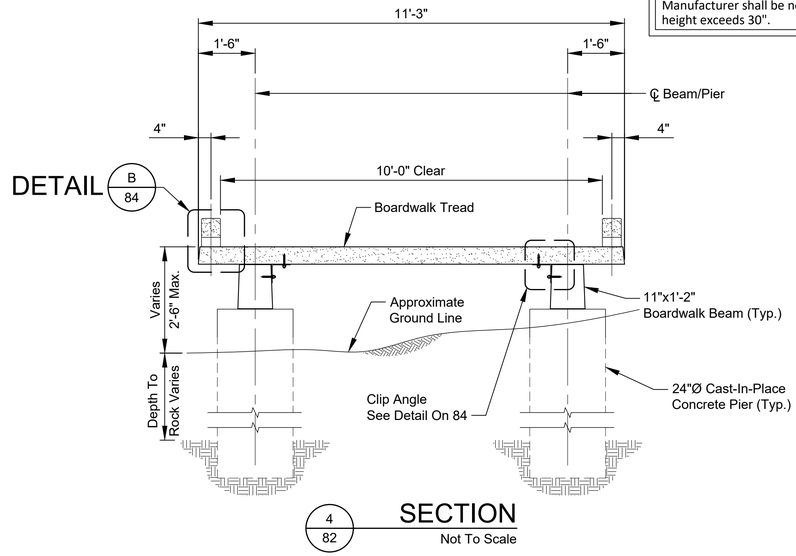
PROJECT TITLE:

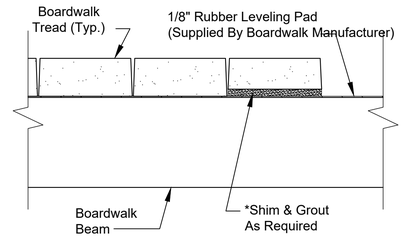
VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

SHEET NO.
82





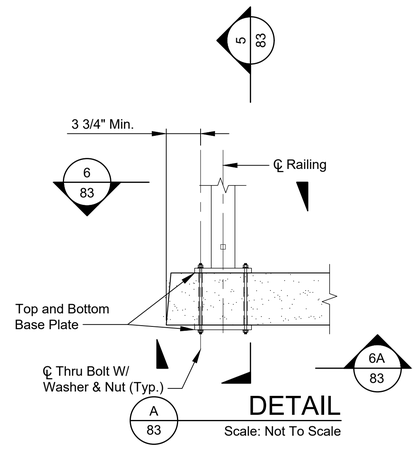
Note For Locations With Boardwalk Curb Shown (See Plan View):
Height shall not exceed 30".
Contractor shall verify prior to construction. Heights in excess of 30" may require a design modification and/or require handrail; Boardwalk Manufacturer shall be notified if height exceeds 30".

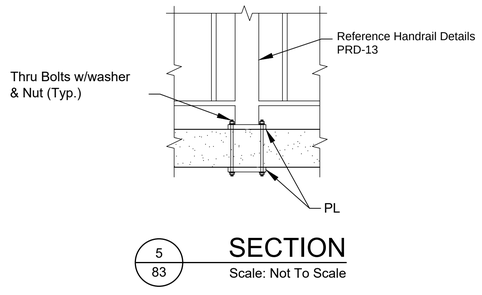


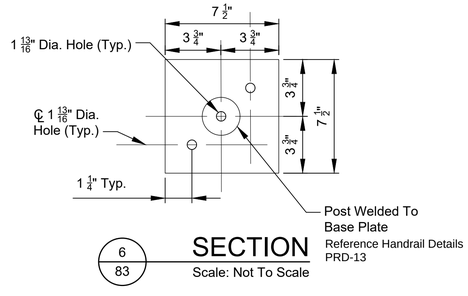
*Note:
Due to tolerances and variance in precast production and installation accuracy, shimming and grouting may be required. Where required the entire bearing area and void shall be shim and grouted.

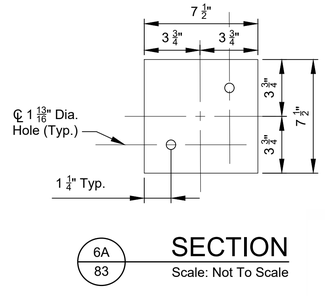
TYPICAL SHIM/GROUT DETAIL

Scale: Not To Scale (UNDER TREAD)









PRECAST CONCRETE BOARDWALK
SHEET 4 OF 6

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

NO.	DATE	DESCRIPTION	BY:
6			
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1			

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
7/26/2021

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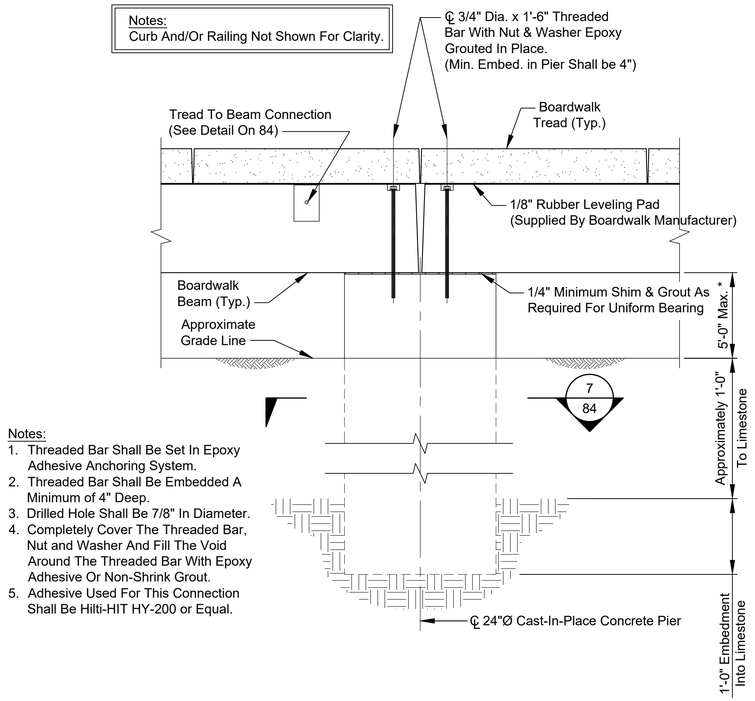
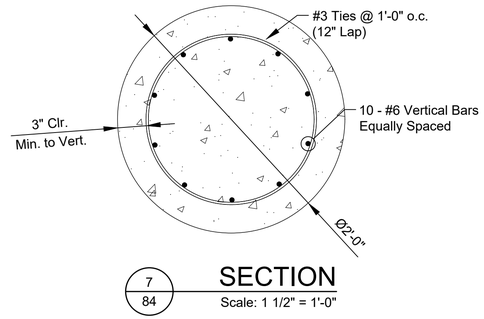
PROJECT TITLE:

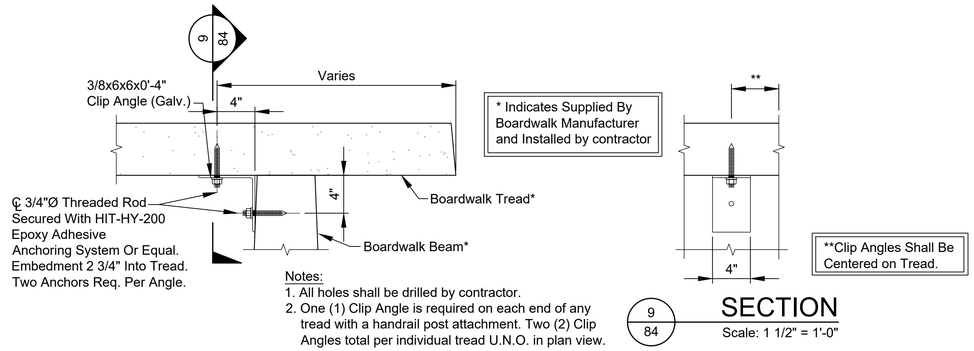
VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

SHEET NO.
83

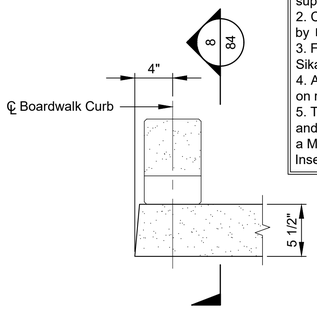




7/84 SECTION
Scale: 1 1/2" = 1'-0"

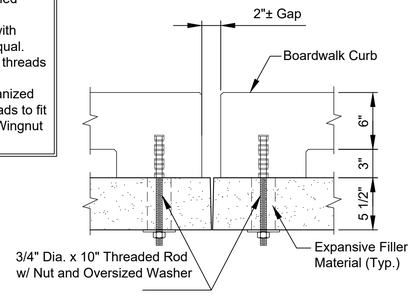


CLIP ANGLE - TREAD TO BEAM CONNECTION
Scale: Not To Scale



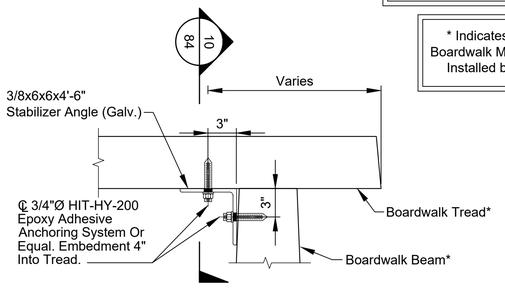
B/84 DETAIL
Scale: 1 1/2" = 1'-0"

Notes:
1. 2" diameter preformed holes supplied by Prefab Bridge Manufacturer.
2. Connection hardware supplied by Prefab Bridge Manufacturer.
3. Fill oversized dowel holes with Sikaflex-11 FC or approved equal.
4. After tightening nut, deform threads on rod to prevent loosening.
5. Threaded rod shall be galvanized and have Coarse Coiled Threads to fit a Meadow Burke CX-28 Coil Wingnut Insert.



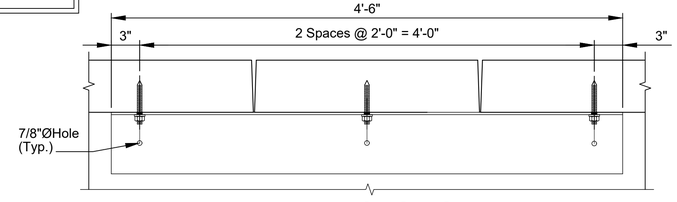
8/84 SECTION
Scale: 1 1/2" = 1'-0"

Notes:
1. All holes shall be drilled by contractor.
2. See Plan Sheet P81 For Required Locations. (2 Total Required)



STABILIZER ANGLE DETAIL
Scale: Not To Scale

* Indicates Supplied By Boardwalk Manufacturer and Installed by Contractor.



10/84 SECTION
Scale: Not To Scale

PRECAST CONCRETE BOARDWALK
SHEET 5 OF 6

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

NO.	DATE	DESCRIPTION	BY:
6			
5			
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1			

STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
7/26/2021

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PROJECT TITLE:

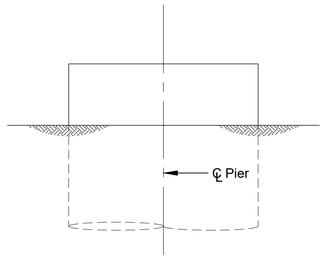
VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

SHEET NO.
84

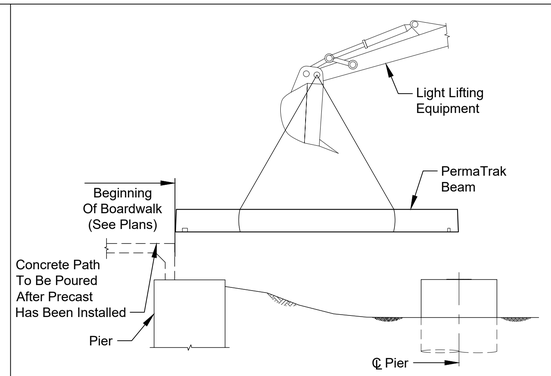
Boardwalk Installation Diagrams

NOTES:
This document is intended to provide the installer guidelines for typical Boardwalk applications. It is not meant to be all inclusive and may be adjusted based upon encountered field conditions.

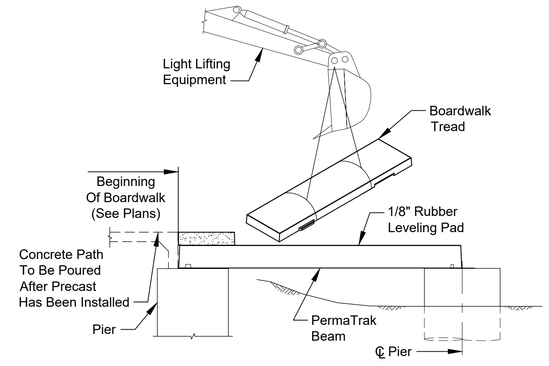
STEP 1:
Survey center of pier control points.
Excavate subgrade to bearing elevation.
Set pier supplied by contractor.
Check horizontal and vertical contour.



STEP 2:
Survey center of pier control points.
Excavate subgrade to bearing elevation.
Set pier supplied by contractor.
Check horizontal and vertical contour.

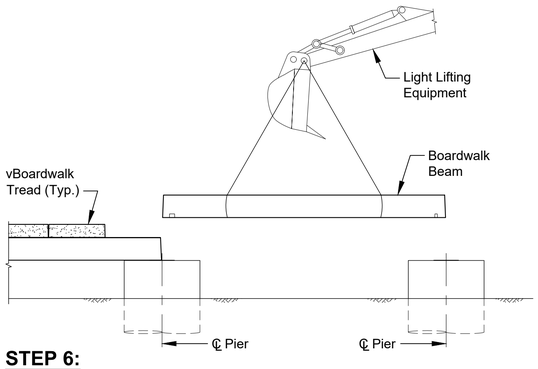


STEP 3:
Position beam over piers and place in final position.



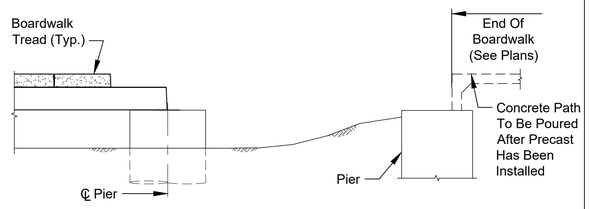
STEP 4:
Lay rubber leveling pad on top of beam, position precast tread on top of beam, be sure tread fits snug against abutment.

STEP 5:
Set 2nd tread ahead of 1st tread, aligning tongues with grooves, check joint spacing, adjust tread position if needed, continue setting treads until 1/3 span reached.

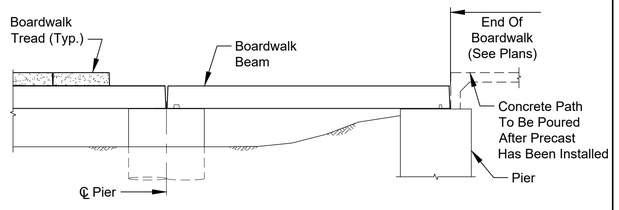


STEP 6:
Continue installing piers, beams and treads at design locations until reaching ending abutment.

Top surface of boardwalk must be protected with plywood or other means while operating machinery on the boardwalk.



STEP 7:
Establish end of boardwalk (may need adjustment based upon accuracy of installed portion in steps 1 - 6). Survey center of pier control points. Excavate subgrade to bearing elevation. Set pier supplied by contractor. Check horizontal, vertical contour and check squareness with boardwalk alignment and adjust if necessary.



STEP 8:
Position beam over pier and abutment, place in final position.
Install treads on top of beams (per steps 4 - 5) until complete.

PRECAST CONCRETE BOARDWALK
SHEET 6 OF 6

Patented Product: U.S. Patent #5,906,084 #8,302,362 #8,522,505 #8,839,588 #9,096,975

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STATE OF TEXAS
KEVIN SWEAT
92023
LICENSED
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7/26/2021

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PROJECT TITLE:

VIOLET CROWN TRAIL
NORTH PHASE 2A
AUSTIN, TEXAS

SHEET NO.
85

DATE:
FILE:

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506.

List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities.

1. City of Austin
2. City of Sunset Valley

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

☐ No Permit Required

☒ Nationwide Permit 14 – PCN not Required (less than 1/10th acre waters or wetlands affected)

☐ Nationwide Permit 14 – PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)

☐ Individual 404 Permit Required

☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

1. WILLIAMSON CREEK LOW WATER CROSSING – STA. 33+43.29 – STA. 35+47.35

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.

Best Management Practices:

Erosion	Sedimentation	Post-Construction TSS
☐ Temporary Vegetation	☒ Silt Fence	☐ Vegetative Filter Strips
☒ Blankets/Matting	☒ Rock Berm	☐ Retention/Irrigation Systems
☒ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☐ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☒ Mulch Filter Berm and Socks
☒ Mulch Filter Berm and Socks	☒ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☐ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	☒ Grassy Swales

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☒ No Action Required ☐ Required Action

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.
Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☐ No Action Required ☒ Required Action

Action No.

1. ALL DISTURBED AREAS WILL BE RE-VEGETATED ACCORDING TO TXDOT'S STANDARD PRACTICES FOR URBAN AREAS AND THE TCEQ CONSTRUCTION GENERAL PERMIT (CGP) TO THE EXTENT PRACTICABLE, IN COMPLIANCE WITH EXECUTIVE ORDER 13112 ON INVASIVE SPECIES AND THE EXECUTIVE MEMORANDUM ON BENEFICIAL LANDSCAPING. RE-VEGETATION EFFORTS WOULD PROVIDE APPROPRIATE AND SUSTAINABLE COVER TO PREVENT EROSION AND SILTATION.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☐ No Action Required ☒ Required Action

Action No.

1. THE CONTRACTOR WILL INVITE TXDOT BIOLOGISTS TO ATTEND THE PRE-CONSTRUCTION MEETING FOR THE PROJECT SO THAT TXDOT CAN PROVIDE SPECIFIC INSTRUCTION ON THE IMPLEMENTATION OF THE GOLDEN CHEEKED WARBLER BMPS.
2. IMPLEMENT GOLDEN CHEEKED WARBLER BMPS TO COMPLY WITH THE PROGRAMMATIC AGREEMENT BETWEEN TXDOT AND USFWS, AS OUTLINED UNDER ITEM VII (OTHER ENVIRONMENTAL ISSUES).
3. IMPLEMENT BMPS FOR THE FOLLOWING, AS OUTLINED UNDER ITEM VII (OTHER ENVIRONMENTAL ISSUES).

   PLAINS SPOTTED SKUNK BMP, AMPHIBIAN AND AQUATIC REPTILE BMPS, BIRD BMPS, TERRESTRIAL REPTILE BMPS, BAT BMPS, VEGETATION BMPS, AND INVASIVE SPECIES BMPS. IMPLEMENT BMPS AS OUTLINED IN THE PREP ROW PRUNING DETAIL SHEET FOR TREE PRESERVATION AND OAK WILT PREVENTION.
4. MIGRATORY BIRDS AND BATS MAY BE NESTING WITHIN THE PROJECT LIMITS AND CONCENTRATED ON ROADWAY STRUCTURES SUCH AS BRIDGES AND CULVERTS. REMOVE ALL OLD AND UNOCCUPIED MIGRATORY BIRD NESTS FROM ANY STRUCTURES, TREES, ETC. BETWEEN SEPTEMBER 16 AND FEBRUARY 28. PREVENT MIGRATORY BIRDS FROM RE-NESTING BETWEEN MARCH 1 AND SEPTEMBER 15. ALL METHODS USED FOR THE REMOVAL OF OLD NESTING AREAS AND THE PREVENTION OF RE-NESTING MUST BE SUBMITTED TO TXDOT 30 BUSINESS DAYS PRIOR TO BEGIN WORK. THIS WORK IS SUBSIDIARY.

   IF ACTIVE NESTS ARE ENCOUNTERED ON-SITE DURING CONSTRUCTION, ALL CONSTRUCTION ACTIVITY WITHIN 50 FT. OF THE NEST MUST STOP. CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.

LIST OF ABBREVIATIONS

BMP: Best Management Practice
CGP: Construction General Permit
DSHS: Texas Department of State Health Services
FHWA: Federal Highway Administration
MOA: Memorandum of AgreementMOU: Memorandum of UnderstandingMS4: Municipal Separate Stormwater Sewer SystemMBTA: Migratory Bird Treaty ActNOT: Notice of TerminationNWP: Nationwide Permit
NOI: Notice of Intent
SPCC: Spill Prevention Control and CountermeasureSW3P: Storm Water Pollution Prevention Plan
PCN: Pre-Construction NotificationPSL: Project Specific LocationTCEQ: Texas Commission on Environmental QualityTPDES: Texas Pollutant Discharge Elimination SystemTPWD: Texas Parks and Wildlife DepartmentTxDOT: Texas Department of TransportationT&E: Threatened and Endangered SpeciesUSACE: U.S. Army Corps of EngineersUSFWS: U.S. Fish and Wildlife Service

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.
Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.
Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:
* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canister, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☒ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Texas Department of Transportation — Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: epic.dgn	DN: TxDOT	CK: RG	DW: VP	CK: AR
©TxDOT: February 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS				
12-12-2011 (DS)	DIST	COUNTY		SHEET NO.
05-07-14 ADDED NOTE SECTION IV.				
01-23-2015 SECTION V (CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.				1 OF 2

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.27.2021
RUBEN LOPEZ, JR
93745
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ JR
LIC # 93745 ON

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

ENVIRONMENTAL PERMITS AND COMMITMENTS - EPIC (SHEET 1 OF 2)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

GP-2020-0085.PW

TXD1 | 86 OF 89

C:\USERS\YAMAGM\CHRCITY OF AUSTIN\PWD-ESD-TEAM1 - DATA\PROJECTS\PWD_VIOLETCROWN\DWG\PRODUCTION_FILES\DWG\WCTR-7107-EPIC.DWG, COA_PDF_22X34_COA_PLOT_STYLES.STB, YAMAGUCHI, RIA
7/27/2021 10:51 AM

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☐ No Action Required ☒ Required Action

Action No.

1. THE PROJECT IS LOCATED ON THE EDWARDS AQUIFER RECHARGE ZONE. A TCEQ WATER POLLUTION ABATEMENT PLAN EXCEPTION REQUEST (WPAP–EXP) WAS OBTAINED FOR THE PROJECT.
2. COMPLY WITH THE WPAP–EXP AND WPAP–EXP APPROVAL LETTER.
3. MAINTAIN COPIES OF THE WPAP–EXP AND WPAP–EXP APPROVAL LETTER ONSITE OR IMMEDIATELY AVAILABLE DURING CONSTRUCTION.
4. IF ANY SENSITIVE FEATURE IS ENCOUNTERED DURING CONSTRUCTION, IMPLEMENT THE VOID MITIGATION AND PROTECTION MEASURE AND VOID DISCOVERY PROTOCOL ON THE VOID MITIGATION NOTES PLAN SHEET.

GOLDEN CHEEKED WARBLER BMPS:

- LIMIT THE OPERATION OF HEAVY MACHINERY TO PAVED AREAS, AREAS FREE OF NATIVE VEGETATION, AND TO AREAS WITH SLOPES THAT ARE LESS THAN 33 PERCENT CONSISTING OF STABLE SOILS.
- CONFIRM THE PRESENCE OF LISTED SPECIES AT OR NEAR THE PROJECT SITE THROUGH PRE–CONSTRUCTION SURVEYS OR ASSUME THEY ARE PRESENT AND IMPLEMENT APPROPRIATE PROTECTION MEASURES.
- MINIMIZE IMPACTS TO LISTED SPECIES AND THEIR HABITATS BY LIMITING GRADING OR TOPSOIL REMOVAL TO AREAS WHERE THIS ACTIVITY IS ABSOLUTELY NECESSARY FOR CONSTRUCTION ACTIVITIES.
- SCHEDULE THE MOST EFFECTIVE AMOUNT OF PERSONNEL AND EQUIPMENT TO COMPLETE CONSTRUCTION TO REDUCE THE TIME OF DISTURBANCE TO LISTED SPECIES. AVOID USE OF NON–NATIVE INVASIVE PLANT SPECIES.
- AVOID USE OF NON–NATIVE INVASIVE PLANT SPECIES.
- STERILIZE EQUIPMENT FOR TREE TRIMMING BETWEEN TREES IN AREAS AFFECTED BY SURFACE TRANSFERABLE BACTERIAL, VIRAL, AND FUNGAL DISEASES.
- DO NOT DISTURB, DESTROY, OR REMOVE ACTIVE NESTS DURING THE NESTING SEASON.
- DO NOT COLLECT, CAPTURE, RELOCATE, OR TRANSPORT BIRDS, EGGS, YOUNG, OR ACTIVE NESTS WITHOUT A PERMIT.
- LIMIT THE USE OF MACHINERY IN HABITAT THAT MAY SUPPORT GROUND–NESTING BIRDS DURING THE SPRING AND EARLY SUMMER MONTHS.
- RETAIN EXISTING VEGETATION WHENEVER POSSIBLE.
- USE GENERAL GOOD HOUSEKEEPING PRACTICES AND DO NOT LEAVE WASTE BEHIND ON THE JOB SITE.
- USE CARE TO AVOID SPILLS, LEAKS AND DRIPS OF EQUIPMENT AND CLEANING FLUIDS WHEN CLEANING TOOLS, SERVICING EQUIPMENT OR DOING ROUTINE MAINTENANCE.
- PROJECTS THAT WOULD INVOLVE CLEARING OR TRIMMING OF INDIVIDUAL TREES OR SHRUBS IN OR NEAR (WITHIN 300 FEET OF) POTENTIAL HABITAT WOULD BE PHASED SO THAT ANY CLEARING ACTIVITIES WOULD OCCUR OUTSIDE THE BREEDING SEASON (BETWEEN SEPTEMBER 1st AND FEBRUARY 28th) TO MINIMIZE IMPACTS TO GCW.

PLAINS SPOTTED SKUNK:

- CONTRACTORS WILL BE ADVISED OF POTENTIAL OCCURRENCE IN THE PROJECT AREA, AND TO AVOID HARMING THE SPECIES IF ENCOUNTERED, AND TO AVOID UNNECESSARY IMPACTS TO DENS.

AMPHIBIAN AND AQUATIC REPTILE BMPS:

FOR PROJECTS WITHIN EXISTING RIGHT-OF-WAY (ROW) WHEN WORK IS IN WATER OR WILL PERMANENTLY IMPACT A WATER FEATURE AND POTENTIAL HABITAT EXISTS FOR THE TARGET SPECIES COMPLETE THE FOLLOWING:

THE CONSTRUCTION CONTRACT WILL REFLECT AMPHIBIAN AND AQUATIC REPTILE CONCERNS AND BMP.

A. CONTRACTORS WILL BE ADVISED OF POTENTIAL OCCURRENCE IN THE PROJECT AREA, AND TO AVOID HARMING THE SPECIES IF ENCOUNTERED.

B. MINIMIZE IMPACTS TO WETLAND, TEMPORARY AND PERMANENT OPEN WATER FEATURES, INCLUDING DEPRESSIONS, AND RIVERINE HABITATS.

C. MAINTAIN HYDROLOGIC REGIME AND CONNECTIONS BETWEEN WETLANDS AND OTHER AQUATIC FEATURES.

D. USE BARRIER FENCING TO DIRECT ANIMAL MOVEMENTS AWAY FROM CONSTRUCTION ACTIVITIES AND AREAS OF POTENTIAL WILDLIFE-VEHICLE COLLISIONS IN CONSTRUCTION AREAS DIRECTLY ADJACENT, OR THAT MAY DIRECTLY IMPACT, POTENTIAL HABITAT FOR THE TARGET SPECIES.

E. APPLY HYDROMULCHING AND/OR HYDROSEEDING IN AREAS FOR SOIL STABILIZATION AND/OR REVEGETATION OF DISTURBED AREAS WHERE FEASIBLE. IF HYDROMULCHING AND/OR HYDROSEEDING ARE NOT FEASIBLE DUE TO SITE CONDITIONS, USING EROSION CONTROL BLANKETS OR MATS THAT CONTAIN NO NETTING, OR ONLY CONTAIN LOOSELY WOVEN NATURAL FIBER NETTING IS PREFERRED. PLASTIC NETTING SHOULD BE AVOIDED TO THE EXTENT PRACTICABLE. THIS MAY BE AN ISSUE; HYDROMULCH VEHICLES ARE TOO BIG AND HEAVY FOR THE TRAIL. WILL INVESTIGATE FIBER NETTING OPTIONS.

F. PROJECT SPECIFIC LOCATIONS (PSLS) PROPOSED WITHIN STATE-OWNED ROW SHOULD BE LOCATED IN UPLANDS AWAY FROM AQUATIC FEATURES. NO STATE-OWNED ROW.

G. WHEN WORK IS DIRECTLY ADJACENT TO THE WATER, MINIMIZE IMPACTS TO SHORELINE BASKING SITES (E.G., DOWNED TREES, SAND BARS, EXPOSED BEDROCK) AND OVERWINTER SITES (E.G., BRUSH AND DEBRIS PILES, CRAYFISH BURROWS) WHERE FEASIBLE.

H. AVOID OR MINIMIZE DISTURBING OR REMOVING DOWNED TREES, ROTTING STUMPS, AND LEAF LITTER, WHICH MAY BE REFUGIA FOR TERRESTRIAL AMPHIBIANS, WHERE FEASIBLE.

I. IF GUTTERS AND CURBS ARE PART OF THE ROADWAY DESIGN, WHERE FEASIBLE INSTALL GUTTERS THAT DO NOT INCLUDE THE SIDE BOX INLET AND INCLUDE SLOPED (I.E. MOUNTABLE) CURBS TO ALLOW SMALL ANIMALS TO LEAVE ROADWAY. IF THIS MODIFICATION TO THE ENTIRE CURB SYSTEM IS NOT POSSIBLE, INSTALL SECTIONS OF SLOPED CURB ON EITHER SIDE OF THE STORM WATER DRAIN FOR SEVERAL FEET TO ALLOW SMALL ANIMALS TO LEAVE THE ROADWAY. PRIORITY AREAS FOR THESE DESIGN RECOMMENDATIONS ARE THOSE WITH NEARBY WETLANDS OR OTHER AQUATIC FEATURES. N/A FOR PROJECTS THAT REQUIRE ACQUISITION OF ADDITIONAL ROW AND WORK WITHIN THAT NEW ROW IS IN WATER OR WILL PERMANENTLY IMPACT A WATER FEATURE, IMPLEMENT A - I ABOVE PLUS J - I BELOW, WHERE APPLICABLE:

J. FOR SECTIONS OF ROADWAY ADJACENT TO WETLANDS OR OTHER AQUATIC FEATURES, INSTALL WILDLIFE BARRIERS THAT PREVENT CLIMBING. BARRIERS SHOULD TERMINATE AT CULVERT OPENINGS IN ORDER TO FUNNEL ANIMALS UNDER THE ROAD. THE BARRIERS SHOULD BE OF THE SAME LENGTH AS THE ADJACENT FEATURE OR 80 FEET LONG IN EACH DIRECTION, OR WHICHEVER IS THE LESSER OF THE TWO. N/A

K. FOR CULVERT EXTENSIONS AND CULVERT REPLACEMENT/INSTALLATION, INCORPORATE MEASURES TO FUNNEL ANIMALS TOWARD CULVERTS SUCH AS CONCRETE WINGWALLS AND BARRIER WALLS WITH OVERHANGS. NO CULVERTS.

L. WHEN RIPRAP OR OTHER BANK STABILIZATION DEVICES ARE NECESSARY, THEIR PLACEMENT SHOULD NOT IMPEDE THE MOVEMENT OF TERRESTRIAL OR AQUATIC WILDLIFE THROUGH THE WATER FEATURE. WHERE FEASIBLE, BIOTECHNICAL STREAMBANK STABILIZATION METHODS USING LIVE NATIVE VEGETATION, OR A COMBINATION OF VEGETATIVE AND STRUCTURAL MATERIALS SHOULD BE USED.

BIRD BMPS:

- DO NOT DISTURB, DESTROY, OR REMOVE ACTIVE NESTS, INCLUDING GROUND NESTING BIRDS, DURING THE
- NESTING SEASON.
- AVOID THE REMOVAL OF UNOCCUPIED, INACTIVE NESTS, AS PRACTICABLE.
- PREVENT THE ESTABLISHMENT OF ACTIVE NESTS DURING THE NESTING SEASON ON TXDOT OWNED AND OPERATED FACILITIES AND STRUCTURES PROPOSED FOR REPLACEMENT OR REPAIR.
- DO NOT COLLECT, CAPTURE, RELOCATE, OR TRANSPORT BIRDS, EGGS, YOUNG, OR ACTIVE NESTS WITHOUT PERMISSION.

TERRESTRIAL REPTILE BMPS:

- WHERE POSSIBLE, APPLY HYDROMULCHING AND/OR HYDROSEEDING IN AREAS FOR SOIL STABILIZATION AND/OR REVEGETATION OF DISTURBED AREAS WHERE FEASIBLE. IF HYDROMULCHING AND/OR HYDROSEEDING ARE NOT FEASIBLE DUE TO SITE CONDITIONS, UTILIZE EROSION CONTROL BLANKETS OR MATS THAT CONTAIN NO NETTING OR CONTAIN LOOSELY WOVEN, NATURAL FIBER NETTING IS PREFERRED. PLASTIC NETTING SHOULD BE AVOIDED TO THE EXTENT PRACTICABLE.
- FOR OPEN TRENCHES AND EXCAVATED PITS, INSTALL ESCAPE RAMPS AT AN ANGLE OF LESS THAN 45 DEGREES (1:1) IN AREAS LEFT UNCOVERED. VISUALLY INSPECT EXCAVATION AREAS FOR TRAPPED WILDLIFE PRIOR TO BACKFILLING.
- INFORM CONTRACTORS THAT IF REPTILES ARE FOUND ON PROJECT SITE ALLOW SPECIES TO SAFELY LEAVE THE PROJECT AREA.
- AVOID OR MINIMIZE DISTURBING OR REMOVING DOWNED TREES, ROTTING STUMPS, AND LEAF LITTER WHERE FEASIBLE.
- CONTRACTORS WILL BE ADVISED OF POTENTIAL OCCURRENCE IN THE PROJECT AREA, AND TO AVOID HARMING THE SPECIES IF ENCOUNTERED.
- DUE TO INCREASED ACTIVITY (MATING) OF REPTILES DURING THE SPRING, CONSTRUCTION ACTIVITIES LIKE CLEARING OR GRADING SHOULD ATTEMPT TO BE SCHEDULED OUTSIDE OF THE SPRING (APRIL-MAY) SEASON. ALSO, TIMING GROUND DISTURBING ACTIVITIES BEFORE OCTOBER WHEN REPTILES BECOME LESS ACTIVE AND MAY BE USING BURROWS IN THE PROJECT AREA IS ALSO ENCOURAGED.

BAT BMPS:

- IF BATS ARE PRESENT OR RECENT SIGNS OF OCCUPATION (I.E., PILES OF GUANO, DISTINCT MUSKY ODOR, OR STAINING AND RUB MARKS AT POTENTIAL ENTRY POINTS) ARE OBSERVED, TAKE APPROPRIATE MEASURES TO ENSURE THAT BATS ARE NOT HARMED, SUCH AS IMPLEMENTING NONLETHAL EXCLUSION ACTIVITIES OR TIMING OR PHASING OF CONSTRUCTION.
- LARGE HOLLOW TREES, SNAGS (DEAD STANDING TREES), AND TREES WITH SHAGGY BARK SHOULD BE SURVEYED FOR COLONIES AND, IF FOUND, SHOULD NOT BE DISTURBED UNTIL THE BATS ARE NO LONGER OCCUPYING THESE FEATURES. POST-OCCUPANCY SURVEYS SHOULD BE CONDUCTED BY A QUALIFIED BIOLOGIST PRIOR TO TREE REMOVAL FROM THE LANDSCAPE.
- RETAIN MATURE, LARGE DIAMETER HARDWOOD FOREST SPECIES AND NATIVE/ORNAMENTAL PALM TREES WHERE FEASIBLE.
- IN ALL INSTANCES, AVOID HARM OR DEATH TO BATS. BATS SHOULD ONLY BE HANDLED AS A LAST RESORT AND AFTER COMMUNICATION WITH TPWD.

VEGETATION BMPS:

- MINIMIZE THE AMOUNT OF VEGETATION CLEARED. REMOVAL OF NATIVE VEGETATION, PARTICULARLY MATURE NATIVE TREES AND SHRUBS SHOULD BE AVOIDED TO THE GREATEST EXTENT PRACTICABLE.
- WHEREVER PRACTICABLE, IMPACTED VEGETATION SHOULD BE REPLACED WITH IN-KIND ON-SITE REPLACEMENT/RESTORATION OF NATIVE VEGETATION.
- TO MINIMIZE ADVERSE EFFECTS, ACTIVITIES SHOULD BE PLANNED TO PRESERVE MATURE TREES, PARTICULARLY ACORN, NUT OR BERRY PRODUCING VARIETIES. THESE TYPES OF VEGETATION HAVE HIGH VALUE TO WILDLIFE AS FOOD AND COVER.
- THE USE OF ANY NON-NATIVE VEGETATION IN LANDSCAPING AND REVEGETATION IS DISCOURAGED.
- LOCALLY ADAPTED NATIVE SPECIES SHOULD BE USED.
- THE USE OF SEED MIX THAT CONTAINS SEEDS FROM ONLY LOCALLY ADAPTED NATIVE SPECIES IS RECOMMENDED.
- AVOID VEGETATION CLEARING ACTIVITIES DURING THE GENERAL BIRD NESTING SEASON, MARCH THROUGH AUGUST, TO MINIMIZE ADVERSE IMPACTS TO BIRDS.

INVASIVE SPECIES BMPS:

COLONIZATION BY INVASIVE PLANTS SHOULD BE ACTIVELY PREVENTED ON DISTURBED SITES IN TERRESTRIAL HABITATS. VEGETATION MANAGEMENT SHOULD INCLUDE REMOVING INVASIVE SPECIES AS SOON AS PRACTICAL WHILE ALLOWING THE EXISTING NATIVE PLANTS TO REVEGETATE THE DISTURBED AREAS. IF USING HAY BALES FOR SEDIMENT CONTROL, USE LOCALLY GROWN WEED-FREE HAY TO PREVENT THE SPREAD OF INVASIVE SPECIES. LEAVE THE HAY BALES IN PLACE AND ALLOW THEM TO BREAK DOWN, AS THIS ACTS AS MULCH ASSISTING IN REVEGETATION.

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RUBEN LOPEZ, JR
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YAMAGUCHI, RIA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

ENVIRONMENTAL PERMITS AND COMMITMENTS - EPIC (SHEET 2 OF 2)

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

Texas Department of Transportation — Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: epic.dgn	DN: TxDOT	CK: RG	DW: VP	CK: AR
©TxDOT: February 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS				
12-12-2011 (DS)				
05-07-14 ADDED NOTE SECTION IV.	DIST	COUNTY		SHEET NO.
01-23-2015 SECTION I (CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.				2 OF 2

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DATE:
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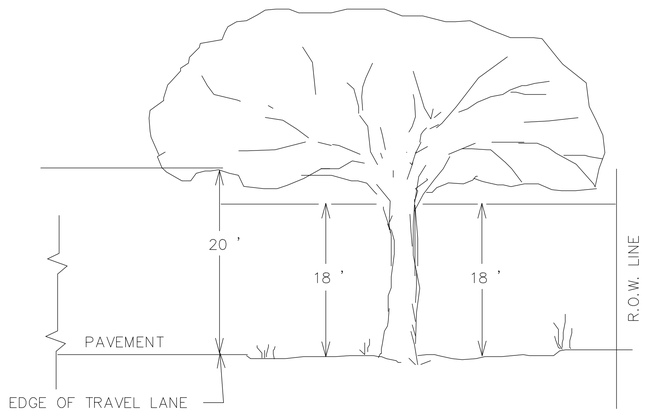
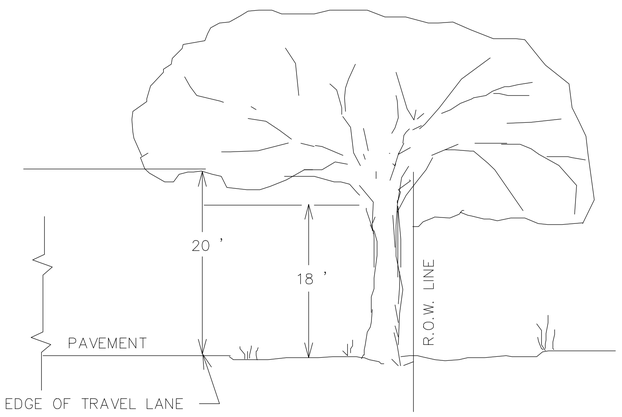
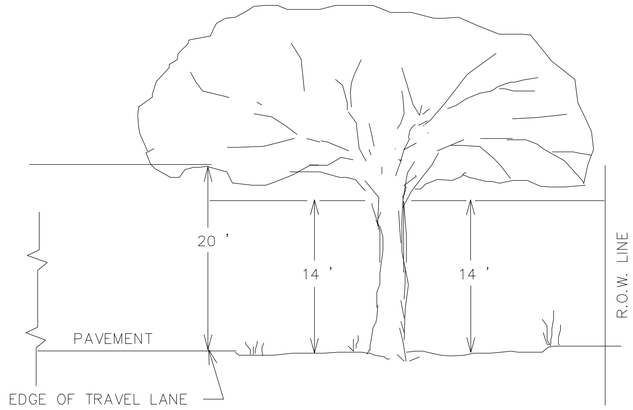
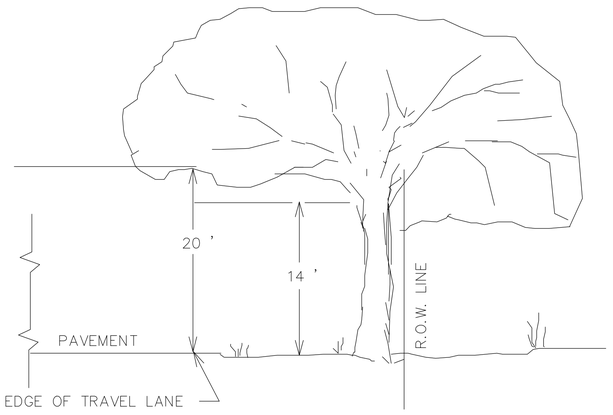




NON OAK SPECIES
TREE PRUNING LIMITS



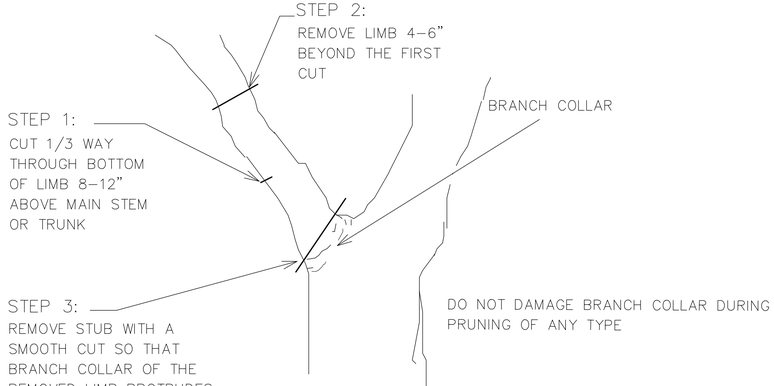


OAK SPECIES
TREE PRUNING LIMITS

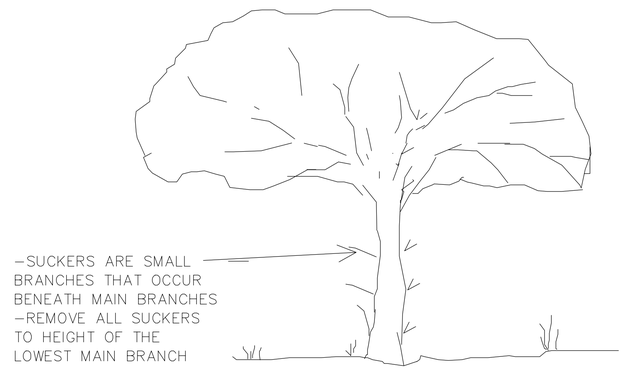
GENERAL NOTES:

PAYMENT FOR THIS WORK IS SUBSIDIARY TO PREP ROW

1. REMOVE ALL DEAD TREES, DEAD SHRUBS, AND THE DEAD MULTI–TRUNKED TREES WITHIN THE ROW. TREES, SHRUBS OR MULTI–TRUNKED TREES THAT DIE DURING CONSTRUCTION SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT. THE STUMP SHALL BE CUT FLUSH WITH THE GROUND.
2. WHEN PRUNING OAK TREES, DISINFECT TOOLS WITH 70 PERCENT METHYL ALCOHOL, CHLORINE SOLUTION, OR OTHER APPROVED DISINFECTANT BEFORE MOVING FROM ONE TREE TO ANOTHER.
3. TREAT ALL WOUNDS AND CUTS ON ALL SPECIES OF OAKS WITH A COMMERCIAL TREE WOUND DRESSING WITHIN 15 MINUTES OF CUTTING.
4. FLAILING EQUIPMENT IS NOT ALLOWED FOR THIS WORK.
5. AT CONTRACTORS EXPENSE, REPAIR DAMAGE TO A PRIVATE FENCE OR PRIVATE PROPERTY.
6. PERFORM TREE PRUNING ONLY WITHIN THE ROW. NO CUTS SHALL BE MADE OUTSIDE THE ROW.
7. CUT LIMBS AT A MAJOR FORK IN THE BRANCH OR IF THE ENTIRE LIMB IS ENCROACHING INTO THE AREA TO BE CLEARED, REMOVE THE BRANCH AT THE TRUNK. MAKE PRUNING CUTS TO NOT LEAVE A STUB AND WITHOUT CUTTING INTO THE BRANCH COLLAR. GENERALLY, THE BRANCH COLLAR IS VISIBLE. IF IT IS NOT VISIBLE, MAKE THE FINAL CUT APPROXIMATELY 1/2IN. FROM THE PARENT LIMB OR TRUNK.
8. PEFORM TREE PRUNING PER DETAIL FOR ENTIRE ROW AREA WITHIN PROJECT LIMITS. THE ENGINEER MAY DEFINE AREAS TO RESTRICT TREE PRUNING.
9. REVIEW EPIC SHEETS FOR AREAS TO BE AVOIDED DUE TO ENVIRONMENTAL REASONS OR ADDITIONAL NOTES THAT PERTAIN TO TREE PRUNING.
10. TRIM TREES OUTSIDE THE MIGRATORY BIRD NESTING SEASON OF MARCH 1ST THRU SEPTEMBER 15TH. TRIM DURING THE NESTING SEASON AS APPROVED BY THE ENGINEER FOR PROJECTS WITH ENTIRE DURATION DURING THE NESTING SEASON.
11. NO TRIMMING OF THE VEGETATION THAT CONTAINS AN ACTIVE NEST FOR MIGRATORY BIRDS.



PROPER TREE PRUNING
FOR LIMBS 2" IN DIA. AND GREATER



SUCKER REMOVAL DETAIL

LEVELS DISPLAYED

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63		

Texas Department of Transportation — Design Division Standard

PREP ROW PRUNING DETAIL

SHEET 1 OF 1 — NOT TO SCALE

FILE:	DN:	CK:	DW: –	CK: –	NEG NO.:
©TxDOT 2012	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT		SHEET
REVISED:	14	6	N/A		$PREP$
REVISED:	COUNTY		CONTROL	SECTION	JOB	HIGHWAY
REVISED:	LEE		0334	06	026	FM 448

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

PREP ROW PRUNING DETAIL

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

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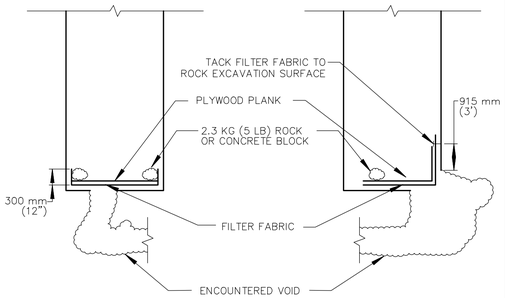
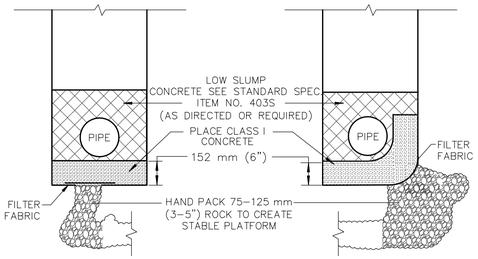
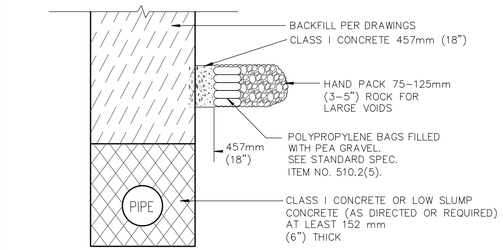


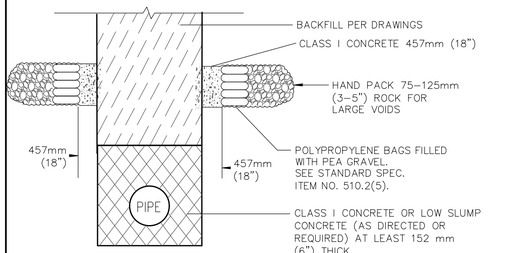
NOTES:
1. PLACE TEMPORARY PROTECTION WITHIN TRENCH TO COVER VOID AS INDICATED. FABRIC SHALL EXTEND A MINIMUM OF 915 mm (3') BEYOND EDGE OF VOID. PLACE A PLYWOOD PLANK MINIMUM 0.75" (19 mm) THICK) OVER FABRIC. PLANK AND FABRIC SHALL BE WEIGHTED AS REQUIRED BY ROCK 2.3 KG (5 LB) OR CONCRETE BLOCK TO SECURE FILTER FABRIC.
2. TEMPORARY PROTECTION SHALL BE IN PLACE AT ALL TIMES THAT CONSTRUCTION OPERATIONS ARE NOT IN ACTUAL PROGRESS.
3. CONSTRUCTION OPERATIONS WITHIN 7.6 m (25') SHALL NOT PROGRESS DURING OCCURRENCE OF RAIN TO ALLOW FOR PROTECTION OF VOID DURING A RAIN EVENT.
4. LOCALIZED EROSION MEASURES (SILT FENCE OR TRIANGULAR FILTER DIKES) SHALL BE INSTALLED ALONG THE TRENCH TO ENSURE THAT LOOSE SPOILS OR RUNOFF DO NOT ENTER THE TRENCH OR AFFECT PERFORMANCE OF TEMPORARY PROTECTION.
5. SPECIAL CARE SHALL BE TAKENTO ENSURE THAT EROSION CONTROL MEASURES REQUIRED ALONG THE TRENCH ARE MAINTAINED, CLEANED AND FULLY FUNCTIONAL.
6. PROCEDURES AND MATERIAL REQUIREMENTS OUTLINED IN STANDARD SPEC. ITEM NO. 658S SHALL BE FOLLOWED.
7. FILTER FABRIC AND ROCK OR CONCRETE BLOCKS AND PLYWOOD PLANK SHALL BE REMOVED FROM THE TRENCH WHEN PERMANENT VOID MITIGATION MEASURES ARE INSTALLED.



NOTES:
1. PROCEDURES AND MATERIAL REQUIREMENTS OUTLINED IN STANDARD SPEC. ITEM NO. 658S SHALL BE FOLLOWED.
2. VOID OPENING MAY REQUIRE REINFORCEMENT OR SUPPORT IF LARGER THAN 915 mm (3') IN WIDTH OR LENGTH. INSTALL AT DIRECTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE.
3. CLASS I CONCRETE SHALL CONFORM TO STANDARD SPEC. ITEM NO. 403S.7, TABLE 5. PLACE A FORM TO ENSURE MINIMUM THICKNESS OF 457 mm (18") EXTENDING A MINIMUM OF 150 mm (6") BEYOND THE EDGE OF THE VOID.

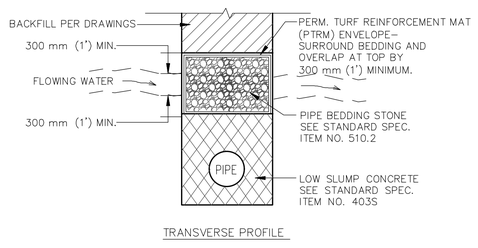


MITIGATION MEASURE A

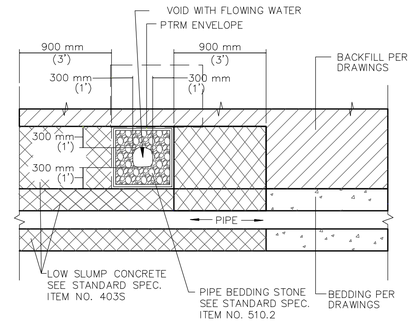


MITIGATION MEASURE B

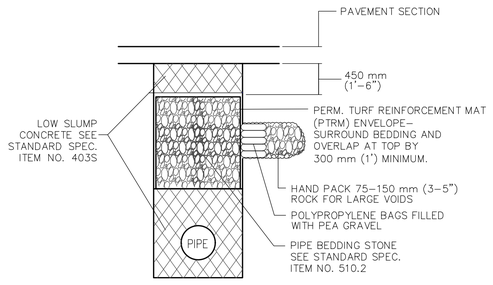
CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	CLASS I–TEMPORARY PROTECTION OF VOID AT BOTTOM OF TRENCH		CLASS II–PERMANENT VOID MITIGATION MEASURES		CLASS III–VOID MITIGATION MEASURES	
RECORD COPY SIGNED BY LEON BARBA, P.E. 03/21/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 658S–1				



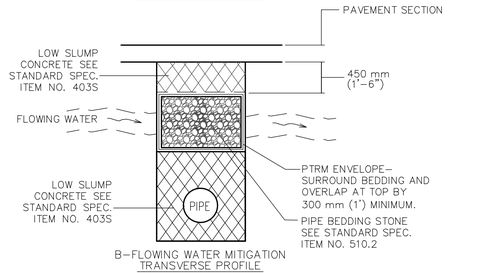
TRANSVERSE PROFILE



LONGITUDINAL PROFILE

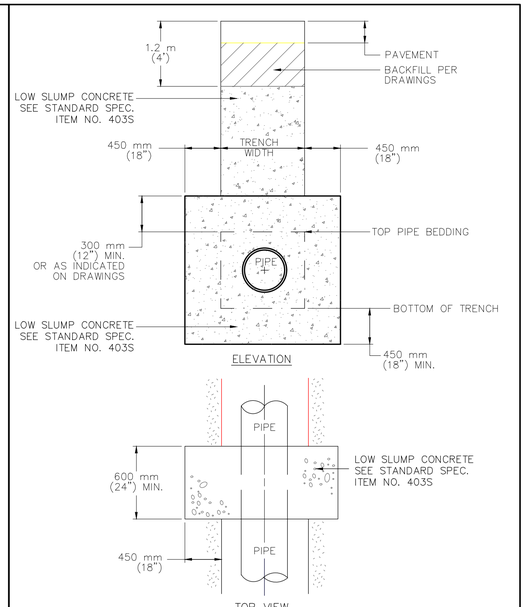


A– VOID MITIGATION TRANSVERSE PROFILE



B–FLOWING WATER MITIGATION TRANSVERSE PROFILE

NOTE: PROCEDURES AND MATERIAL REQUIREMENTS OUTLINED IN STANDARD SPEC. ITEM NO. 658S TO BE FOLLOWED.



ELEVATION

TOP VIEW

NOTE: UNLESS OTHERWISE SPECIFIED IN PLANS, RETARD SHALL BE CONSTRUCTED WITH DIMENSIONS AS SHOWN IN THIS STANDARD.

	CLASS V–WATER FLOW MITIGATION MEASURES GROUNDWATER ABOVE BEDDING MATERIAL DEPTH		MODIFIED CLASS V– COMBINATION VOID AND POTENTIAL WATER FLOW MITIGATION MEASURES		MODIFIED CONCRETE RETARD	

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
07.29.2021
RUBEN LOPEZ, JR
93745
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RUBEN LOPEZ, JR (PE # 93745)

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

VIOLET CROWN TRAIL - NORTH
PHASE 2A

VOID MITIGATION DETAILS

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	QMD	12/2015
DRAWN BY	IMV	12/2015
DESIGNED BY	IMV	12/2015
CHECKED BY	ESD	12/2015
REVIEWED BY	RL	12/2015

ESD
ENGINEERING SERVICES
DIVISION

GP-2020-0085.PW

TXD4 | 89 OF 89

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7/29/2021 2:30 PM
YAMAGUCHI, RIA